ANDROID DEVELOPMENT

(STUDY NOTES)

Android Quick Study

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Android Quick Study:

Android Design Patterns Greg Nudelman,2013-02-19 Master the challenges of Android user interface development with these sample patterns With Android 4 Google brings the full power of its Android OS to both smartphone and tablet computing Designing effective user interfaces that work on multiple Android devices is extremely challenging This book provides more than 75 patterns that you can use to create versatile user interfaces for both smartphones and tablets saving countless hours of development time Patterns cover the most common and yet difficult types of user interactions and each is supported with richly illustrated step by step instructions Includes sample patterns for welcome and home screens searches sorting and filtering data entry navigation images and thumbnails interacting with the environment and networks and more Features tablet specific patterns and patterns for avoiding results you don t want Illustrated step by step instructions describe what the pattern is how it works when and why to use it and related patterns and anti patterns A companion website offers additional content and a forum for interaction Android Design Patterns Interaction Design Solutions for Developers provides extremely useful tools for developers who want to take advantage of the booming Android app development market

Learning Android Marko Gargenta,Masumi Nakamura,2014-01-09 Want to build apps for Android devices This book is the perfect way to master the fundamentals Written by experts who have taught this mobile platform to hundreds of developers in large organizations and startups alike this gentle introduction shows experienced object oriented programmers how to use Android s basic building blocks to create user interfaces store data connect to the network and more Throughout the book you ll build a Twitter like application adding new features with each chapter You ll also create your own toolbox of code patterns to help you program any type of Android application with ease Become familiar with the Android platform and how it fits into the mobile ecosystem Dive into the Android stack including its application framework and the APK application package Learn Android s building blocks Activities Intents Services Content Providers and Broadcast Receivers Create basic Android user interfaces and organize UI elements in Views and Layouts Build a service that uses a background process to update data in your application **The Fast Way to Learn Python GUI with MariaDB and SQLite** Vivian Siahaan,Rismon Hasiholan Sianipar,2020-01-15 This book explains relational theory in practice and demonstrates through two projects how you can apply it to your use of MariaDB and SQLite databases This book covers the important requirements of teaching databases with a practical and progressive perspective This book offers the straightforward practical answers you need to help you do your job This hands on tutorial reference guide to MariaDB and SQLite is not only perfect for students and beginners but it also works for experienced developers who aren t getting the most from both databases In designing a GUI and as an IDE you will make use Qt Designer In the first chapter you will learn to use several widgets in PyQt5 Display a welcome message Use the Radio Button widget Grouping radio buttons Displays options in the form of a check box and Display two groups of check boxes In chapter two you will learn to use the following topics Using Signal Slot

Editor Copy and place text from one Line Edit widget to another Convert data types and make a simple calculator Use the Spin Box widget Use scrollbars and sliders Using the Widget List Select a number of list items from one Widget List and display them on another Widget List widget Add items to the Widget List Perform operations on the Widget List Use the Combo Box widget Displays data selected by the user from the Calendar Widget Creating a hotel reservation application and Display tabular data using Table Widgets In chapter three you will learn How to create the initial three tables project in the School database Teacher Class and Subject tables How to create database configuration files How to create a Python GUI for inserting and editing tables How to create a Python GUI to join and query the three tables In chapter four you will learn how to Create a main form to connect all forms Create a project will add three more tables to the school database Student Parent and Tuition tables Create a Python GUI for inserting and editing tables Create a Python GUI to join and query over the three tables In chapter five you will join the six classes Teacher TClass Subject Student Parent and Tuition and make queries over those tables In chapter six you will create dan configure database In this chapter you will create Suspect table in crime database This table has eleven columns suspect_id primary key suspect_name birth_date case_date report_date suspect_ status arrest_date mother_name address telephone and photo You will also create GUI to display edit insert and delete for this table In chapter seven you will create a table with the name Feature_Extraction which has eight columns feature_id primary key suspect_id foreign key feature1 feature2 feature3 feature4 feature5 and feature6 The six fields except keys will have a VARCHAR data type 200 You will also create GUI to display edit insert and delete for this table In chapter eight you will create two tables Police and Investigator The Police table has six columns police_id primary key province city address telephone and photo The Investigator table has eight columns investigator_id primary key investigator_name rank birth_date gender address telephone and photo You will also create GUI to display edit insert and delete for both tables In chapter nine you will create two tables Victim and Case_File The Victim table has nine columns victim_id primary key victim_name crime_type birth_date crime_date gender address telephone and photo The Case_File table has seven columns case_file_id primary key suspect_id foreign key police_id foreign key investigator_id foreign key victim_id foreign key status and description You will create GUI to display edit insert and delete for both tables as well **Android Ice Cream Sandwich Superguide (PCWorld Superguides)** , From the Editors of PCWorld discover everything there is to know about the latest Android platform Ice Cream Sandwich is the most delicious Android yet Get the scoop on Google s latest mobile OS in PCWorld s newest Superguide Android Ice Cream Sandwich Android Ice Cream Sandwich is a marvel of advanced engineering a powerful handsome and versatile operating system that presents a universe of opportunities if you know how to use it But most of us could use some help on that score Fortunately assistance is now available in the form of PCWorld s just published Superguide an in depth look at Android Ice Cream Sandwich for smartphone and tablet owners The all new guide written by PCWorld s mobile experts can get you started on Ice Cream Sandwich in a hurry with a walk through of new

features a generous collection of tips and tricks and a guide to essential apps for both phones and tablets Want to defend your phone against obnoxious ads Or back up your phone Or upload 20 000 of your own songs to the cloud and then stream them back to your Ice Cream Sandwich device for free This authoritative volume offers step by step instructions for everything you need to know to accomplish these tasks and many more Other sections evaluate the best browsers security apps and utilities for your phone and even show you how to transform your smartphone into a high end camera For Ice Cream Sandwich tablet users we explain how to use Android Widgets and we rate the best news weather reference and communication apps **The Fast Tutorial to Learn Database Programming Using Python GUI with Access and SQL Server** Vivian Siahaan,Rismon Hasiholan Sianipar,2020-01-15 This book covers microsoft acces and SQL Server based GUI programming using pyqt Intentionally designed for various levels of interest and ability of learners this book is suitable for students engineers and even researchers in a variety of disciplines No advanced programming experience is needed and only a few school level programming skill are needed In the first chapter you will learn to use several widgets in PyQt5 Display a welcome message Use the Radio Button widget Grouping radio buttons Displays options in the form of a check box and Display two groups of check boxes In chapter two you will learn to use the following topics Using Signal Slot Editor Copy and place text from one Line Edit widget to another Convert data types and make a simple calculator Use the Spin Box widget Use scrollbars and sliders Using the Widget List Select a number of list items from one Widget List and display them on another Widget List widget Add items to the Widget List Perform operations on the Widget List Use the Combo Box widget Displays data selected by the user from the Calendar Widget Creating a hotel reservation application and Display tabular data using Table Widgets In third chapter you will learn How to create the initial three tables project in the School database Teacher Class and Subject tables How to create database configuration files How to create a Python GUI for inserting and editing tables How to create a Python GUI to join and query the three tables In fourth chapter you will learn how to Create a main form to connect all forms Create a project will add three more tables to the school database Student Parent and Tuition tables Create a Python GUI for inserting and editing tables Create a Python GUI to join and query over the three tables In chapter five you will join the six classes Teacher TClass Subject Student Parent and Tuition and make queries over those tables In chapter six you will create dan configure database In this chapter you will create Suspect table in crime database This table has eleven columns suspect_id primary key suspect_name birth_date case_date report_date suspect_ status arrest_date mother_name address telephone and photo You will also create GUI to display edit insert and delete for this table In chapter seven you will create a table with the name Feature_Extraction which has eight columns feature_id primary key suspect_id foreign key feature1 feature2 feature3 feature4 feature5 and feature6 The six fields except keys will have VARBINARY MAX data type You will also create GUI to display edit insert and delete for this table In chapter eight you will create two tables Police and Investigator The Police table has six columns police_id primary key province city address

telephone and photo The Investigator table has eight columns investigator_id primary key investigator_name rank birth_date gender address telephone and photo You will also create GUI to display edit insert and delete for both tables In the last chapter you will create two tables Victim and Case_File The Victim table has nine columns victim_id primary key victim_name crime_type birth_date crime_date gender address telephone and photo The Case_File table has seven columns case_file_id primary key suspect_id foreign key police_id foreign key investigator_id foreign key victim_id foreign key status and description You will create GUI to display edit insert and delete for both tables as well **DATA SCIENCE CRASH COURSE: Skin Cancer Classification and Prediction Using Machine Learning and Deep Learning** Vivian Siahaan,Rismon Hasiholan Sianipar,2022-02-01 Skin cancer develops primarily on areas of sun exposed skin including the scalp face lips ears neck chest arms and hands and on the legs in women But it can also form on areas that rarely see the light of day your palms beneath your fingernails or toenails and your genital area Skin cancer affects people of all skin tones including those with darker complexions When melanoma occurs in people with dark skin tones it s more likely to occur in areas not normally exposed to the sun such as the palms of the hands and soles of the feet Dataset used in this project contains a balanced dataset of images of benign skin moles and malignant skin moles The data consists of two folders with each 1800 pictures 224x244 of the two types of moles The machine learning models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost LGBM classifier Gradient Boosting XGB classifier MLP classifier and CNN 1D The deep learning models used are CNN and MobileNet

THREE PROJECTS: Sentiment Analysis and Prediction Using Machine Learning and Deep Learning with Python GUI Vivian Siahaan,Rismon Hasiholan Sianipar,2022-03-21 PROJECT 1 TEXT PROCESSING AND SENTIMENT ANALYSIS USING MACHINE LEARNING AND DEEP LEARNING WITH PYTHON GUI Twitter data used in this project was scraped from February of 2015 and contributors were asked to first classify positive negative and neutral tweets followed by categorizing negative reasons such as late flight or rude service This data was originally posted by Crowdflower last February and includes tweets about 6 major US airlines Additionally Crowdflower had their workers extract the sentiment from the tweet as well as what the passenger was dissapointed about if the tweet was negative The information of main attributes for this project are as follows airline_sentiment Sentiment classification positivie neutral and negative negativereason Reason selected for the negative opinion airline Name of 6 US Airlines Delta United Southwest US Airways Virgin America American and text Customer s opinion The models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost LGBM classifier Gradient Boosting and XGB classifier and LSTM Three vectorizers used in machine learning are Hashing Vectorizer Count Vectorizer and TFID Vectorizer Finally you will develop a GUI using PyQt5 to plot cross validation score predicted values versus true values confusion matrix learning curve performance of the model scalability of the model training loss and training accuracy PROJECT 2 HOTEL REVIEW

SENTIMENT ANALYSIS USING MACHINE LEARNING AND DEEP LEARNING WITH PYTHON GUI The data used in this project is the data published by Anurag Sharma about hotel reviews that were given by costumers The data is given in two files a train and test The train csv is the training data containing unique User_ID for each entry with the review entered by a costumer and the browser and device used The target variable is Is_Response a variable that states whether the costumers was happy or not happy while staying in the hotel This type of variable makes the project to a classification problem The test csv is the testing data contains similar headings as the train data without the target variable The models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost LGBM classifier Gradient Boosting and XGB classifier and LSTM Three vectorizers used in machine learning are Hashing Vectorizer Count Vectorizer and TFID Vectorizer Finally you will develop a GUI using PyQt5 to plot cross validation score predicted values versus true values confusion matrix learning curve performance of the model scalability of the model training loss and training accuracy PROJECT 3 STUDENT ACADEMIC PERFORMANCE ANALYSIS AND PREDICTION USING MACHINE LEARNING WITH PYTHON GUI The dataset used in this project consists of student achievement in secondary education of two Portuguese schools The data attributes include student grades demographic social and school related features and it was collected by using school reports and questionnaires Two datasets are provided regarding the performance in two distinct subjects Mathematics mat and Portuguese language por In the two datasets were modeled under binary five level classification and regression tasks Important note the target attribute G3 has a strong correlation with attributes G2 and G1 This occurs because G3 is the final year grade issued at the 3rd period while G1 and G2 correspond to the 1st and 2nd period grades It is more difficult to predict G3 without G2 and G1 but such prediction is much more useful Attributes in the dataset are as follows school student s school binary GP Gabriel Pereira or MS Mousinho da Silveira sex student s sex binary F female or M male age student s age numeric from 15 to 22 address student s home address type binary U urban or R rural famsize family size binary LE3 less or equal to 3 or GT3 greater than 3 Pstatus parent s cohabitation status binary T living together or A apart Medu mother s education numeric 0 none 1 primary education 4th grade 2 5th to 9th grade 3 secondary education or 4 higher education Fedu father s education numeric 0 none 1 primary education 4th grade 2 5th to 9th grade 3 secondary education or 4 higher education Mjob mother s job nominal teacher health care related civil services e g administrative or police at_home or other Fjob father s job nominal teacher health care related civil services e g administrative or police at_home or other reason reason to choose this school nominal close to home school reputation course preference or other guardian student s guardian nominal mother father or other traveltime home to school travel time numeric 1 1 hour studytime weekly study time numeric 1 10 hours failures number of past class failures numeric n if 1 STUDENT ACADEMIC PERFORMANCE ANALYSIS AND PREDICTION USING MACHINE LEARNING WITH PYTHON Vivian Siahaan,Rismon Hasiholan Sianipar,2022-03-20 The dataset used in this project consists of student

achievement in secondary education of two Portuguese schools The data attributes include student grades demographic social and school related features and it was collected by using school reports and questionnaires Two datasets are provided regarding the performance in two distinct subjects Mathematics mat and Portuguese language por In the two datasets were modeled under binary five level classification and regression tasks Important note the target attribute G3 has a strong correlation with attributes G2 and G1 This occurs because G3 is the final year grade issued at the 3rd period while G1 and G2 correspond to the 1st and 2nd period grades It is more difficult to predict G3 without G2 and G1 but such prediction is much more useful Attributes in the dataset are as follows school student s school binary GP Gabriel Pereira or MS Mousinho da Silveira sex student s sex binary F female or M male age student s age numeric from 15 to 22 address student s home address type binary U urban or R rural famsize family size binary LE3 less or equal to 3 or GT3 greater than 3 Pstatus parent s cohabitation status binary T living together or A apart Medu mother s education numeric 0 none 1 primary education 4th grade 2 5th to 9th grade 3 secondary education or 4 higher education Fedu father s education numeric 0 none 1 primary education 4th grade 2 5th to 9th grade 3 secondary education or 4 higher education Mjob mother s job nominal teacher health care related civil services e g administrative or police at_home or other Fjob father s job nominal teacher health care related civil services e g administrative or police at_home or other reason reason to choose this school nominal close to home school reputation course preference or other guardian student s guardian nominal mother father or other traveltime home to school travel time numeric 1 1 hour studytime weekly study time numeric 1 10 hours failures number of past class failures numeric n if 1 **SUPERMARKET SALES ANALYSIS AND PREDICTION USING MACHINE LEARNING WITH PYTHON GUI** Vivian Siahaan,Rismon Hasiholan Sianipar,2022-04-15 The dataset used in this project consists of the growth of supermarkets with high market competitions in most populated cities The dataset is one of the historical sales of supermarket company which has recorded in 3 different branches for 3 months data Predictive data analytics methods are easy to apply with this dataset Attribute information in the dataset are as follows Invoice id Computer generated sales slip invoice identification number Branch Branch of supercenter 3 branches are available identified by A B and C City Location of supercenters Customer type Type of customers recorded by Members for customers using member card and Normal for without member card Gender Gender type of customer Product line General item categorization groups Electronic accessories Fashion accessories Food and beverages Health and beauty Home and lifestyle Sports and travel Unit price Price of each product in Quantity Number of products purchased by customer Tax 5% tax fee for customer buying Total Total price including tax Date Date of purchase Record available from January 2019 to March 2019 Time Purchase time 10am to 9pm Payment Payment used by customer for purchase 3 methods are available Cash Credit card and Ewallet COGS Cost of goods sold Gross margin percentage Gross margin percentage Gross income Gross income and Rating Customer stratification rating on their overall shopping experience On a scale of 1 to 10 In this project you will perform predicting rating using

machine learning The machine learning models used in this project to predict clusters as target variable are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine LGBM Gradient Boosting XGB and MLP Finally you will plot boundary decision distribution of features feature importance cross validation score and predicted values versus true values confusion matrix learning curve performance of the model scalability of the model training loss and training accuracy **Hands-On Guide On Data Science and Machine Learning with Python GUI** Vivian Siahaan,2021-07-08 In this book you will implement two data science projects using Scikit Learn Scipy and other libraries with Python GUI In Chapter 1 you will learn how to use Scikit Learn Scipy and other libraries to perform how to predict traffic number of vehicles in four different junctions using Traffic Prediction Dataset provided by Kaggle https www kaggle com fedesoriano traffic prediction dataset download This dataset contains 48 1k 48120 observations of the number of vehicles each hour in four different junctions 1 DateTime 2 Juction 3 Vehicles and 4 ID In Chapter 2 you will learn how to use Scikit Learn NumPy Pandas and other libraries to perform how to analyze and predict heart attack using Heart Attack Analysis Prediction Dataset provided by Kaggle https www kaggle com rashikrahmanpritom heart attack analysis prediction dataset download In Chapter 3 you will learn how to use Scikit Learn SVM NumPy Pandas and other libraries to perform how to predict early stage diabetes using Early Stage Diabetes Risk Prediction Dataset provided by Kaggle https www kaggle com ishandutta early stage diabetes risk prediction dataset download This dataset contains the sign and symptpom data of newly diabetic or would be diabetic patient This has been collected using direct questionnaires from the patients of Sylhet Diabetes Hospital in Sylhet Bangladesh and approved by a doctor The Applied Data Science Workshop On Medical Datasets Using Machine Learning and Deep Learning with Python GUI Vivian Siahaan,Rismon Hasiholan Sianipar,2022-01-07 Workshop 1 Heart Failure Analysis and Prediction Using Scikit Learn Keras and TensorFlow with Python GUI Cardiovascular diseases CVDs are the number 1 cause of death globally taking an estimated 17 9 million lives each year which accounts for 31% of all deaths worldwide Heart failure is a common event caused by CVDs and this dataset contains 12 features that can be used to predict mortality by heart failure People with cardiovascular disease or who are at high cardiovascular risk due to the presence of one or more risk factors such as hypertension diabetes hyperlipidaemia or already established disease need early detection and management wherein a machine learning models can be of great help Dataset used in this project is from Davide Chicco Giuseppe Jurman Machine learning can predict survival of patients with heart failure from serum creatinine and ejection fraction alone BMC Medical Informatics and Decision Making 20 16 2020 Attribute information in the dataset are as follows age Age anaemia Decrease of red blood cells or hemoglobin boolean creatinine_phosphokinase Level of the CPK enzyme in the blood mcg L diabetes If the patient has diabetes boolean ejection_fraction Percentage of blood leaving the heart at each contraction percentage high_blood_pressure If the patient has hypertension boolean platelets Platelets in the blood kiloplatelets mL serum_creatinine Level of serum creatinine in the blood mg dL serum_sodium Level of serum sodium

in the blood mEq L sex Woman or man binary smoking If the patient smokes or not boolean time Follow up period days and DEATH_EVENT If the patient deceased during the follow up period boolean The models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost LGBM classifier Gradient Boosting XGB classifier MLP classifier and CNN 1D Finally you will develop a GUI using PyQt5 to plot boundary decision ROC distribution of features feature importance cross validation score and predicted values versus true values confusion matrix learning curve performace of the model scalability of the model training loss and training accuracy WORKSHOP 2 Cervical Cancer Classification and Prediction Using Machine Learning and Deep Learning with Python GUI About 11 000 new cases of invasive cervical cancer are diagnosed each year in the U S However the number of new cervical cancer cases has been declining steadily over the past decades Although it is the most preventable type of cancer each year cervical cancer kills about 4 000 women in the U S and about 300 000 women worldwide Numerous studies report that high poverty levels are linked with low screening rates In addition lack of health insurance limited transportation and language difficulties hinder a poor woman s access to screening services Human papilloma virus HPV is the main risk factor for cervical cancer In adults the most important risk factor for HPV is sexual activity with an infected person Women most at risk for cervical cancer are those with a history of multiple sexual partners sexual intercourse at age 17 years or younger or both A woman who has never been sexually active has a very low risk for developing cervical cancer Sexual activity with multiple partners increases the likelihood of many other sexually transmitted infections chlamydia gonorrhea syphilis Studies have found an association between chlamydia and cervical cancer risk including the possibility that chlamydia may prolong HPV infection Therefore early detection of cervical cancer using machine and deep learning models can be of great help The dataset used in this project is obtained from UCI Repository and kindly acknowledged This file contains a List of Risk Factors for Cervical Cancer leading to a Biopsy Examination The models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost LGBM classifier Gradient Boosting XGB classifier MLP classifier and CNN 1D Finally you will develop a GUI using PyQt5 to plot boundary decision ROC distribution of features feature importance cross validation score and predicted values versus true values confusion matrix learning curve performace of the model scalability of the model training loss and training accuracy WORKSHOP 3 Chronic Kidney Disease Classification and Prediction Using Machine Learning and Deep Learning with Python GUI Chronic kidney disease is the longstanding disease of the kidneys leading to renal failure The kidneys filter waste and excess fluid from the blood As kidneys fail waste builds up Symptoms develop slowly and aren t specific to the disease Some people have no symptoms at all and are diagnosed by a lab test Medication helps manage symptoms In later stages filtering the blood with a machine dialysis or a transplant may be required The dataset used in this project was taken over a 2 month period in India with 25 features eg red blood cell count white blood cell count etc The target is the classification which is either ckd or notckd ckd chronic

kidney disease It contains measures of 24 features for 400 people Quite a lot of features for just 400 samples There are 14 categorical features while 10 are numerical The dataset needs cleaning in that it has NaNs and the numeric features need to be forced to floats Attribute Information Age numerical age in years Blood Pressure numerical bp in mm Hg Specific Gravity categorical sg 1 005 1 010 1 015 1 020 1 025 Albumin categorical al 0 1 2 3 4 5 Sugar categorical su 0 1 2 3 4 5 Red Blood Cells categorical rbc normal abnormal Pus Cell categorical pc normal abnormal Pus Cell clumps categorical pcc present notpresent Bacteria categorical ba present notpresent Blood Glucose Random numerical bgr in mgs dl Blood Urea numerical bu in mgs dl Serum Creatinine numerical sc in mgs dl Sodium numerical sod in mEq L Potassium numerical pot in mEq L Hemoglobin numerical hemo in gms Packed Cell Volume numerical White Blood Cell Count numerical wc in cells cumm Red Blood Cell Count numerical rc in millions cmm Hypertension categorical htn yes no Diabetes Mellitus categorical dm yes no Coronary Artery Disease categorical cad yes no Appetite categorical appet good poor Pedal Edema categorical pe yes no Anemia categorical ane yes no and Class categorical class ckd notckd The models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost LGBM classifier Gradient Boosting XGB classifier MLP classifier and CNN 1D Finally you will develop a GUI using PyQt5 to plot boundary decision ROC distribution of features feature importance cross validation score and predicted values versus true values confusion matrix learning curve performace of the model scalability of the model training loss and training accuracy WORKSHOP 4 Lung Cancer Classification and Prediction Using Machine Learning and Deep Learning with Python GUI The effectiveness of cancer prediction system helps the people to know their cancer risk with low cost and it also helps the people to take the appropriate decision based on their cancer risk status The data is collected from the website online lung cancer prediction system Total number of attributes in the dataset is 16 while number of instances is 309 Following are attribute information of dataset Gender M male F female Age Age of the patient Smoking YES 2 NO 1 Yellow fingers YES 2 NO 1 Anxiety YES 2 NO 1 Peer_pressure YES 2 NO 1 Chronic Disease YES 2 NO 1 Fatigue YES 2 NO 1 Allergy YES 2 NO 1 Wheezing YES 2 NO 1 Alcohol YES 2 NO 1 Coughing YES 2 NO 1 Shortness of Breath YES 2 NO 1 Swallowing Difficulty YES 2 NO 1 Chest pain YES 2 NO 1 and Lung Cancer YES NO The models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost LGBM classifier Gradient Boosting XGB classifier MLP classifier and CNN 1D Finally you will develop a GUI using PyQt5 to plot boundary decision ROC distribution of features feature importance cross validation score and predicted values versus true values confusion matrix learning curve performace of the model scalability of the model training loss and training accuracy WORKSHOP 5 Alzheimer s Disease Classification and Prediction Using Machine Learning and Deep Learning with Python GUI Alzheimer s is a type of dementia that causes problems with memory thinking and behavior Symptoms usually develop slowly and get worse over time becoming severe enough to interfere with daily tasks Alzheimer s is not a normal part of aging The greatest known risk

factor is increasing age and the majority of people with Alzheimer s are 65 and older But Alzheimer s is not just a disease of old age Approximately 200 000 Americans under the age of 65 have younger onset Alzheimer s disease also known as early onset Alzheimer s The dataset consists of a longitudinal MRI data of 374 subjects aged 60 to 96 Each subject was scanned at least once Everyone is right handed 206 of the subjects were grouped as Nondemented throughout the study 107 of the subjects were grouped as Demented at the time of their initial visits and remained so throughout the study 14 subjects were grouped as Nondemented at the time of their initial visit and were subsequently characterized as Demented at a later visit These fall under the Converted category Following are some important features in the dataset EDUC Years of Education SES Socioeconomic Status MMSE Mini Mental State Examination CDR Clinical Dementia Rating eTIV Estimated Total Intracranial Volume nWBV Normalize Whole Brain Volume and ASF Atlas Scaling Factor The models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost LGBM classifier Gradient Boosting XGB classifier MLP classifier and CNN 1D Finally you will develop a GUI using PyQt5 to plot boundary decision ROC distribution of features feature importance cross validation score and predicted values versus true values confusion matrix learning curve performance of the model scalability of the model training loss and training accuracy WORKSHOP 6 Parkinson Classification and Prediction Using Machine Learning and Deep Learning with Python GUI The dataset was created by Max Little of the University of Oxford in collaboration with the National Centre for Voice and Speech Denver Colorado who recorded the speech signals The original study published the feature extraction methods for general voice disorders This dataset is composed of a range of biomedical voice measurements from 31 people 23 with Parkinson s disease PD Each column in the table is a particular voice measure and each row corresponds one of 195 voice recording from these individuals name column The main aim of the data is to discriminate healthy people from those with PD according to status column which is set to 0 for healthy and 1 for PD The data is in ASCII CSV format The rows of the CSV file contain an instance corresponding to one voice recording There are around six recordings per patient the name of the patient is identified in the first column Attribute information of this dataset are as follows name ASCII subject name and recording number MDVP Fo Hz Average vocal fundamental frequency MDVP Fhi Hz Maximum vocal fundamental frequency MDVP Flo Hz Minimum vocal fundamental frequency MDVP Jitter % MDVP Jitter Abs MDVP RAP MDVP PPQ Jitter DDP Several measures of variation in fundamental frequency MDVP Shimmer MDVP Shimmer dB Shimmer APQ3 Shimmer APQ5 MDVP APQ Shimmer DDA Several measures of variation in amplitude NHR HNR Two measures of ratio of noise to tonal components in the voice status Health status of the subject one Parkinson s zero healthy RPDE D2 Two nonlinear dynamical complexity measures DFA Signal fractal scaling exponent and spread1 spread2 PPE Three nonlinear measures of fundamental frequency variation The models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost LGBM classifier Gradient Boosting XGB classifier MLP

classifier and CNN 1D Finally you will develop a GUI using PyQt5 to plot boundary decision ROC distribution of features feature importance cross validation score and predicted values versus true values confusion matrix learning curve performance of the model scalability of the model training loss and training accuracy WORKSHOP 7 Liver Disease Classification and Prediction Using Machine Learning and Deep Learning with Python GUI Patients with Liver disease have been continuously increasing because of excessive consumption of alcohol inhale of harmful gases intake of contaminated food pickles and drugs This dataset was used to evaluate prediction algorithms in an effort to reduce burden on doctors This dataset contains 416 liver patient records and 167 non liver patient records collected from North East of Andhra Pradesh India The Dataset column is a class label used to divide groups into liver patient liver disease or not no disease This data set contains 441 male patient records and 142 female patient records Any patient whose age exceeded 89 is listed as being of age 90 Columns in the dataset Age of the patient Gender of the patient Total Bilirubin Direct Bilirubin Alkaline Phosphotase Alamine Aminotransferase Aspartate Aminotransferase Total Protiens Albumin Albumin and Globulin Ratio and Dataset field used to split the data into two sets patient with liver disease or no disease The models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost LGBM classifier Gradient Boosting XGB classifier MLP classifier and CNN 1D Finally you will develop a GUI using PyQt5 to plot boundary decision ROC distribution of features feature importance cross validation score and predicted values versus true values confusion matrix learning curve performance of the model scalability of the model training loss and training accuracy

Hands-On Guide To IMAGE CLASSIFICATION Using Scikit-Learn, Keras, And TensorFlow with PYTHON GUI Vivian Siahaan,2023-06-20 In this book implement deep learning on detecting face mask classifying weather and recognizing flower using TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries In chapter 1 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform detecting face mask using Face Mask Detection Dataset provided by Kaggle https www kaggle com omkargurav face mask dataset download Here s an overview of the steps involved in detecting face masks using the Face Mask Detection Dataset Import the necessary libraries Import the required libraries like TensorFlow Keras Scikit Learn OpenCV Pandas and NumPy Load and preprocess the dataset Load the dataset and perform any necessary preprocessing steps such as resizing images and converting labels into numeric representations Split the dataset Split the dataset into training and testing sets using the train_test_split function from Scikit Learn This will allow us to evaluate the model s performance on unseen data Data augmentation optional Apply data augmentation techniques to artificially increase the size and diversity of the training set Techniques like rotation zooming and flipping can help improve the model s generalization Build the model Create a Convolutional Neural Network CNN model using TensorFlow and Keras Design the architecture of the model including the number and type of layers Compile the model Compile the model by specifying the loss function optimizer and evaluation metrics This prepares the model for training

Train the model Train the model on the training dataset Adjust the hyperparameters such as the learning rate and number of epochs to achieve optimal performance Evaluate the model Evaluate the trained model on the testing dataset to assess its performance Calculate metrics such as accuracy precision recall and F1 score Make predictions Use the trained model to make predictions on new images or video streams Apply the face mask detection algorithm to identify whether a person is wearing a mask or not Visualize the results Visualize the predictions by overlaying bounding boxes or markers on the images or video frames to indicate the presence or absence of face masks In chapter 2 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to classify weather using Multi class Weather Dataset provided by Kaggle https www kaggle com pratik2901 multiclass weather dataset download To classify weather using the Multi class Weather Dataset from Kaggle you can follow these general steps Load the dataset Use libraries like Pandas or NumPy to load the dataset into memory Explore the dataset to understand its structure and the available features Preprocess the data Perform necessary preprocessing steps such as data cleaning handling missing values and feature engineering This may include resizing images if the dataset contains images or encoding categorical variables Split the data Split the dataset into training and testing sets The training set will be used to train the model and the testing set will be used for evaluating its performance Build a model Utilize TensorFlow and Keras to define a suitable model architecture for weather classification The choice of model depends on the type of data you have For image data convolutional neural networks CNNs often work well Train the model Train the model using the training data Use appropriate training techniques like gradient descent and backpropagation to optimize the model s weights Evaluate the model Evaluate the trained model s performance using the testing data Calculate metrics such as accuracy precision recall or F1 score to assess how well the model performs Fine tune the model If the model s performance is not satisfactory you can experiment with different hyperparameters architectures or regularization techniques to improve its performance This process is called model tuning Make predictions Once you are satisfied with the model s performance you can use it to make predictions on new unseen data Provide the necessary input e g an image or weather features to the trained model and it will predict the corresponding weather class In chapter 3 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to recognize flower using Flowers Recognition dataset provided by Kaggle https www kaggle com alxmamaev flowers recognition download Here are the general steps involved in recognizing flowers Data Preparation Download the Flowers Recognition dataset from Kaggle and extract the contents Import the required libraries and define the dataset path and image dimensions Loading and Preprocessing the Data Load the images and their corresponding labels from the dataset Resize the images to a specific dimension Perform label encoding on the flower labels and split the data into training and testing sets Normalize the pixel values of the images Building the Model Define the architecture of your model using TensorFlow s Keras API You can choose from various neural network architectures such as CNNs ResNet or

InceptionNet The model architecture should be designed to handle image inputs and output the predicted flower class Compiling and Training the Model Compile the model by specifying the loss function optimizer and evaluation metrics Common choices include categorical cross entropy loss and the Adam optimizer Train the model using the training set and validate it using the testing set Adjust the hyperparameters such as the learning rate and number of epochs to improve performance Model Evaluation Evaluate the trained model on the testing set to measure its performance Calculate metrics such as accuracy precision recall and F1 score to assess how well the model is recognizing flower classes Prediction Use the trained model to predict the flower class for new images Load and preprocess the new images in a similar way to the training data Pass the preprocessed images through the trained model and obtain the predicted flower class labels Further Improvements If the model s performance is not satisfactory consider experimenting with different architectures hyperparameters or techniques such as data augmentation or transfer learning Fine tuning the model or using ensembles of models can also improve accuracy **LEARN FROM SCRATCH VISUAL C# .NET WITH MYSQL** Vivian Siahaan,Rismon Hasiholan Sianipar,2020-10-05 In Tutorial 1 you will start building a Visual C interface for database management system project using MySQL The database named DBMS is created The designed interface in this tutorial will used as the main terminal in accessing other forms This tutorial will also discuss how to create login form and login table In Tutorial 2 you will build a project as part of database management system where you can store information about valuables in school The table will have seven fields Item description of the item Location where the item was placed Shop where the item was purchased DatePurchased when the item was purchased Cost how much the item cost SerialNumber serial number of the item PhotoFile path of the photo file of the item and Fragile indicates whether a particular item is fragile or not In Tutorial 3 up to Tutorial 4 you will perform the steps necessary to add 6 tables using phpMyAdmin into DBMS database You will build each table and add the associated fields as needed In this tutorials you will create a library database project as part of database management system where you can store all information about library including author title and publisher In Tutorial 5 up to Tutorial 7 you will perform the steps necessary to add 8 more tables using phpMyAdmin into DBMS database You will build each table and add the associated fields as needed In this tutorials you will create a high school database project as part of database management system where you can store all information about school including parent teacher student subject and title and grade Step by Step Tutorial IMAGE CLASSIFICATION Using Scikit-Learn, Keras, And TensorFlow with PYTHON GUI Vivian Siahaan,2023-06-21 In this book implement deep learning based image classification on classifying monkey species recognizing rock paper and scissor and classify airplane car and ship using TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries In chapter 1 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to classify monkey species using 10 Monkey Species dataset provided by Kaggle https www kaggle com slothkong 10 monkey species download Here s an overview of the steps involved in classifying

monkey species using the 10 Monkey Species dataset Dataset Preparation Download the 10 Monkey Species dataset from Kaggle and extract the files The dataset should consist of separate folders for each monkey species with corresponding images Load and Preprocess Images Use libraries such as OpenCV to load the images from the dataset Resize the images to a consistent size e g 224x224 pixels to ensure uniformity Split the Dataset Divide the dataset into training and testing sets Typically an 80 20 or 70 30 split is used where the larger portion is used for training and the smaller portion for testing the model s performance Label Encoding Encode the categorical labels monkey species into numeric form This step is necessary to train a machine learning model as most algorithms expect numerical inputs Feature Extraction Extract meaningful features from the images using techniques like deep learning or image processing algorithms This step helps in representing the images in a format that the machine learning model can understand Model Training Use libraries like TensorFlow and Keras to train a machine learning model on the preprocessed data Choose an appropriate model architecture in this case MobileNetV2 Model Evaluation Evaluate the trained model on the testing set to assess its performance Metrics like accuracy precision recall and F1 score can be used to evaluate the model s classification performance Predictions Use the trained model to make predictions on new unseen images Pass the images through the trained model and obtain the predicted labels for the monkey species In chapter 2 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to recognize rock paper and scissor using dataset provided by Kaggle https www kaggle com sanikamal rock paper scissors dataset download Here s the outline of the steps Step 1 Dataset Preparation Download the rock paper scissors dataset from Kaggle by visiting the provided link and clicking on the Download button Save the dataset to a local directory on your machine Extract the downloaded dataset to a suitable location This will create a folder containing the images for rock paper and scissors Step 2 Data Preprocessing Import the required libraries TensorFlow Keras NumPy OpenCV and Pandas Load the dataset using OpenCV Iterate through the image files in the dataset directory and use OpenCV s cv2 imread function to load each image You can specify the image s file extension e g PNG and directory path Preprocess the images Resize the loaded images to a consistent size using OpenCV s cv2 resize function You may choose a specific width and height suitable for your model Prepare the labels Create a list or array to store the corresponding labels for each image rock paper or scissors This can be done based on the file naming convention or by mapping images to their respective labels using a dictionary Step 3 Model Training Create a convolutional neural network CNN model using Keras Define a CNN architecture using Keras Sequential model or functional API This typically consists of convolutional layers pooling layers and dense layers Compile the model Specify the loss function e g categorical cross entropy and optimizer e g Adam using Keras compile function You can also define additional metrics to evaluate the model s performance Train the model Use Keras fit function to train the model on the preprocessed dataset Specify the training data labels batch size number of epochs and validation data if available This will optimize the model s weights based on the provided dataset Save the trained model Once

the model training is complete you can save the trained model to disk using Keras save or save_weights function This allows you to load the model later for predictions or further training Step 4 Model Evaluation Evaluate the trained model Use Keras evaluate function to assess the model s performance on a separate testing dataset Provide the testing data and labels to calculate metrics such as accuracy precision recall and F1 score This will help you understand how well the model generalizes to new unseen data Analyze the model s performance Interpret the evaluation metrics and analyze any potential areas of improvement You can also visualize the confusion matrix or classification report to gain more insights into the model s predictions Step 5 Prediction Use the trained model for predictions Load the saved model using Keras load_model function Then pass new unseen images through the model to obtain predictions Preprocess these images in the same way as the training images resize normalize etc Visualize and interpret predictions Display the predicted labels alongside the corresponding images to see how well the model performs You can use libraries like Matplotlib or OpenCV to show the images and their predicted labels Additionally you can calculate the accuracy of the model s predictions on the new dataset In chapter 3 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to classify airplane car and ship using Multiclass image dataset airplane car ship dataset provided by Kaggle https www kaggle com abtabm multiclassimagedatasetairplanecar Here are the outline steps Import the required libraries TensorFlow Keras Scikit Learn OpenCV Pandas NumPy Load and preprocess the dataset Read the images from the dataset folder Resize the images to a fixed size Store the images and corresponding labels Split the dataset into training and testing sets Split the data and labels into training and testing sets using a specified ratio Encode the labels Convert the categorical labels into numerical format Perform one hot encoding on the labels Build MobileNetV2 model using Keras Create a sequential model Add convolutional layers with activation functions Add pooling layers for downsampling Flatten the output and add dense layers Set the output layer with softmax activation Compile and train the model Compile the model with an optimizer and loss function Train the model using the training data and labels Specify the number of epochs and batch size Evaluate the model Evaluate the trained model using the testing data and labels Calculate the accuracy of the model Make predictions on new images Load and preprocess a new image Use the trained model to predict the label of the new image Convert the predicted label from numerical format to categorical **Two Books In One: LEARN FROM SCRATCH VISUAL BASIC .NET WITH MYSQL** Vivian Siahaan,Rismon Hasiholan Sianipar,2020-11-05 BOOK 1 VISUAL BASIC NET AND DATABASE PRACTICAL TUTORIALS This book aims to develop a MySQL driven desktop application that readers can develop for their own purposes to implement library project using Visual Basic NET In Tutorial 1 you will build a Visual Basic interface for the database This interface will used as the main terminal in accessing other forms This tutorial will also discuss how to create login form and login table You will create login form Place on the form one picture box two labels one combo box one text box and two buttons In Tutorial 2 you will build a school inventory project where you can store information about valuables in school The

table will have nine fields Item description of the item Quantity Location where the item was placed Shop where the item was purchased DatePurchased when the item was purchased Cost how much the item cost SerialNumber serial number of the item PhotoFile path of the photo file of the item and Fragile indicates whether a particular item is fragile or not In Tutorial 3 you will perform the steps necessary to add 5 new tables using phpMyAdmin into Academy database You will build each table and add the associated fields as needed Every table in the database will need input form In this tutorial you will build such a form for Author table Although this table is quite simple only four fields AuthorID Name BirthDate and PhotoFile it provides a basis for illustrating the many steps in interface design SQL statement is required by the Command object to read fields sorted by Name Then you will build an interface so that the user can maintain the Publisher table in the database Academy The Publisher table interface is more or less the same as Author table interface This Publisher table interface only requires more input fields So you will use the interface for the Author table and modify it for the Publisher table In Tutorial 4 you will perform the steps necessary to design and implement title form library member form and book borrowal form You start by designing and testing the basic entry form for book titles The Title table has nine fields BookTitle PublishYear ISBN PublisherID AuthorID Description Note Subject and Comment Then you will build such a form for Member table This table has twelve fields MemberID FirstName LastName BirthDate Status Ethnicity Nationality Mobile Phone Religion Gender and PhotoFile You need thirteen label controls one picture box six text boxes four comboxes one check box one date time picker one openfiledialog and one printpreviewdialog You also need four buttons for navigation six buttons for controlling editing features one button for searching member s name and one button to upload member s photo Finally you will build such a form for Borrow table This table has seven fields BorrowID MemberID BorrowCode ISBN BorrowDate ReturnDate and Penalty In this form you need fourteen label controls seven text boxes two comboxes two date time pickers and one printpreviewdialog You also need four buttons for navigation seven buttons for other utilities one button to generate borrowal code and one button to return book BOOK 2 LEARN FROM SCRATCH VISUAL BASIC NET WITH MYSQL This book will teach you with step by step approach to develop from scratch a MySQL driven desktop application that readers can develop for their own purposes to implement school database project using Visual Basic NET In Tutorial 1 you will perform the steps necessary to add 8 tables using phpMyAdmin into School database that you will create You will build each table and add the associated fields as needed In this tutorial you will also build login form and main form In Tutorial 2 you will build such a form for Parent table This table has thirteen fields ParentID FirstName LastName BirthDate Status Ethnicity Nationality Mobile Phone Religion Gender PhotoFile and FingerFile You need fourteen label controls two picture boxes six text boxes four comboxes one check box one date time picker one openfiledialog and one printpreviewdialog You also need four buttons for navigation six buttons for other utilities one button for searching member s name one button to upload parent s photo and button to upload parent s finger Place these controls on the form In Tutorial 3 you will build such a form

for Student table This table has fifteen fields StudentID ParentID FirstName LastName BirthDate YearEntry Status Ethnicity Nationality Mobile Phone Religion Gender PhotoFile and FingerFile You need sixteen label controls two picture boxes six text boxes five comboxes one check box two date time pickers one openfiledialog and one printpreviewdialog You also need four buttons for navigation seven buttons for controlling editing features one button for searching parent s name one button to open parent form one button to upload student s photo and one button to upload student s finger In Tutorial 4 you will build a form for Teacher table This table has fifteen fields TeacherID RegNumber FirstName LastName BirthDate Rank Status Ethnicity Nationality Mobile Phone Religion Gender PhotoFile and FingerFile You need an input form so that user can edit existing records delete records or add new records The form will also have the capability of navigating from one record to another You need sixteen label controls one picture box seven text boxes five comboxes one check box one date time picker one openfiledialog and one printpreviewdialog You also need four buttons for navigation six buttons for controlling editing features one button for searching teacher s name and one button to upload teacher s photo In Tutorial 5 you will build a form for Subject table This table has only three fields SubjectID Name and Description You need four label controls four text boxes one openfiledialog and one printpreviewdialog You also need four buttons for navigation secen buttons for utilities and one button for searching subject name Place these controls on the form You will also build a form for Grade table This table has seven fields GradeID Name SubjectID TeacherID SchoolYear TimaStart and TimeFinish You need to add seven label controls one text box four comboxes and two date time pickers You also need four buttons for navigation seven buttons for controlling editing features one button to open subject form and one button to open teacher form In Tutorial 6 you will build a form for Grade_Student table This table has only three fields Grade_StudentID GradeID and StudentID You need an input form so that user can edit existing records delete records or add new records The form will also have the capability of navigating from one record to another You need two label controls and two comboxes You also need four buttons for navigation seven buttons for controlling editing features one button to open grade form and one button to open student form **ZERO TO MASTERY: THE COMPLETE GUIDE TO LEARNING SQLITE AND PYTHON GUI** Vivian Siahaan,Rismon Hasiholan Sianipar,2022-08-17 In this project we provide you with the SQLite version of The Oracle Database Sample Schemas that provides a common platform for examples in each release of the Oracle Database The sample database is also a good database for practicing with SQL especially SQLite The detailed description of the database can be found on http luna ext di fc ul pt oracle11g server 112 e10831 diagrams htm insertedID0 The four schemas are a set of interlinked schemas This set of schemas provides a layered approach to complexity A simple schema Human Resources HR is useful for introducing basic topics An extension to this schema supports Oracle Internet Directory demos A second schema Order Entry OE is useful for dealing with matters of intermediate complexity Many data types are available in this schema including non scalar data types The Online Catalog OC subschema is a collection of object relational database objects built inside the OE schema The

Product Media PM schema is dedicated to multimedia data types The Sales History SH schema is designed to allow for demos with large amounts of data An extension to this schema provides support for advanced analytic processing The HR schema consists of seven tables regions countries locations departments employees jobs and job_histories This book only implements HR schema since the other schemas will be implemented in the next books *ZERO TO MASTERY: THE COMPLETE GUIDE TO LEARNING POSTGRESQL WITH PYTHON GUI* Vivian Siahaan,Rismon Hasiholan Sianipar,2022-09-25 This book uses the PostgreSQL version of MySQL based Northwind database The Northwind database is a sample database that was originally created by Microsoft and used as the basis for their tutorials in a variety of database products for decades The Northwind database contains the sales data for a fictitious company called Northwind Traders which imports and exports specialty foods from around the world The Northwind database is an excellent tutorial schema for a small business ERP with customers orders inventory purchasing suppliers shipping employees and single entry accounting The Northwind database has since been ported to a variety of non Microsoft databases including PostgreSQL The Northwind dataset includes sample data for the following Suppliers Suppliers and vendors of Northwind Customers Customers who buy products from Northwind Employees Employee details of Northwind traders Products Product information Shippers The details of the shippers who ship the products from the traders to the end customers and Orders and Order_Details Sales Order transactions taking place between the customers the distribution of amount by year quarter month week day and hour the distribution of bottom 10 sales by product top 10 sales by product bottom 10 sales by customer top 10 sales by customer bottom 10 sales by supplier top 10 sales by supplier bottom 10 sales by customer country top 10 sales by customer country bottom 10 sales by supplier country top 10 sales by supplier country average amount by month with mean and ewm average amount by every month amount feature over June 1997 amount feature over 1998 and all amount feature **TRAVEL REVIEW RATING CLASSIFICATION AND PREDICTION USING MACHINE LEARNING WITH PYTHON GUI** Vivian Siahaan,Rismon Hasiholan Sianipar,2022-04-05 The dataset used in this project has been sourced from the Machine Learning Repository of University of California Irvine UC Irvine Travel Review Ratings Data Set This dataset is populated by capturing user ratings from Google reviews Reviews on attractions from 24 categories across Europe are considered Google user rating ranges from 1 to 5 and average user rating per category is calculated The attributes in the dataset are as follows Attribute 1 Unique user id Attribute 2 Average ratings on churches Attribute 3 Average ratings on resorts Attribute 4 Average ratings on beaches Attribute 5 Average ratings on parks Attribute 6 Average ratings on theatres Attribute 7 Average ratings on museums Attribute 8 Average ratings on malls Attribute 9 Average ratings on zoo Attribute 10 Average ratings on restaurants Attribute 11 Average ratings on pubs bars Attribute 12 Average ratings on local services Attribute 13 Average ratings on burger pizza shops Attribute 14 Average ratings on hotels other lodgings Attribute 15 Average ratings on juice bars Attribute 16 Average ratings on art galleries Attribute 17 Average ratings on dance clubs Attribute 18 Average ratings

on swimming pools Attribute 19 Average ratings on gyms Attribute 20 Average ratings on bakeries Attribute 21 Average ratings on beauty Attribute 22 Average ratings on cafes Attribute 23 Average ratings on view points Attribute 24 Average ratings on monuments and Attribute 25 Average ratings on gardens The models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost LGBM classifier Gradient Boosting XGB classifier and MLP classifier Three feature scaling used in machine learning are raw minmax scaler and standard scaler Finally you will develop a GUI using PyQt5 to plot cross validation score predicted values versus true values confusion matrix learning curve decision boundaries performance of the model scalability of the model training loss and training accuracy **SIX BOOKS IN ONE: Classification, Prediction, and Sentiment Analysis Using Machine Learning and Deep Learning with Python GUI** Vivian Siahaan,Rismon Hasiholan Sianipar,2022-04-11 Book 1 BANK LOAN STATUS CLASSIFICATION AND PREDICTION USING MACHINE LEARNING WITH PYTHON GUI The dataset used in this project consists of more than 100 000 customers mentioning their loan status current loan amount monthly debt etc There are 19 features in the dataset The dataset attributes are as follows Loan ID Customer ID Loan Status Current Loan Amount Term Credit Score Annual Income Years in current job Home Ownership Purpose Monthly Debt Years of Credit History Months since last delinquent Number of Open Accounts Number of Credit Problems Current Credit Balance Maximum Open Credit Bankruptcies and Tax Liens The models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost LGBM classifier Gradient Boosting and XGB classifier Three feature scaling used in machine learning are raw minmax scaler and standard scaler Finally you will develop a GUI using PyQt5 to plot cross validation score predicted values versus true values confusion matrix learning curve decision boundaries performance of the model scalability of the model training loss and training accuracy Book 2 OPINION MINING AND PREDICTION USING MACHINE LEARNING AND DEEP LEARNING WITH PYTHON GUI Opinion mining sometimes known as sentiment analysis or emotion AI refers to the use of natural language processing text analysis computational linguistics and biometrics to systematically identify extract quantify and study affective states and subjective information This dataset was created for the Paper From Group to Individual Labels using Deep Features Kotzias et al KDD 2015 It contains sentences labelled with a positive or negative sentiment Score is either 1 for positive or 0 for negative The sentences come from three different websites fields imdb com amazon com and yelp com For each website there exist 500 positive and 500 negative sentences Those were selected randomly for larger datasets of reviews Amazon contains reviews and scores for products sold on amazon com in the cell phones and accessories category and is part of the dataset collected by McAuley and Leskovec Scores are on an integer scale from 1 to 5 Reviews considered with a score of 4 and 5 to be positive and scores of 1 and 2 to be negative The data is randomly partitioned into two halves of 50% one for training and one for testing with 35 000 documents in each set IMDb refers to the IMDb movie review sentiment dataset originally introduced

by Maas et al as a benchmark for sentiment analysis This dataset contains a total of 100 000 movie reviews posted on imdb com There are 50 000 unlabeled reviews and the remaining 50 000 are divided into a set of 25 000 reviews for training and 25 000 reviews for testing Each of the labeled reviews has a binary sentiment label either positive or negative Yelp refers to the dataset from the Yelp dataset challenge from which we extracted the restaurant reviews Scores are on an integer scale from 1 to 5 Reviews considered with scores 4 and 5 to be positive and 1 and 2 to be negative The data is randomly generated a 50 50 training and testing split which led to approximately 300 000 documents for each set Sentences for each of the datasets above labels are extracted and manually 1000 sentences are manually labeled from the test set with 50% positive sentiment and 50% negative sentiment These sentences are only used to evaluate our instance level classifier for each dataset3 They are not used for model training to maintain consistency with our overall goal of learning at a group level and predicting at the instance level The models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost LGBM classifier Gradient Boosting and XGB classifier Three feature scaling used in machine learning are raw minmax scaler and standard scaler Finally you will develop a GUI using PyQt5 to plot cross validation score predicted values versus true values confusion matrix learning curve decision boundaries performance of the model scalability of the model training loss and training accuracy Book 3 EMOTION PREDICTION FROM TEXT USING MACHINE LEARNING AND DEEP LEARNING WITH PYTHON GUI In the dataset used in this project there are two columns Text and Emotion Quite self explanatory The Emotion column has various categories ranging from happiness to sadness to love and fear You will build and implement machine learning and deep learning models which can identify what words denote what emotion The models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost LGBM classifier Gradient Boosting and XGB classifier Three feature scaling used in machine learning are raw minmax scaler and standard scaler Finally you will develop a GUI using PyQt5 to plot cross validation score predicted values versus true values confusion matrix learning curve decision boundaries performance of the model scalability of the model training loss and training accuracy Book 4 HATE SPEECH DETECTION AND SENTIMENT ANALYSIS USING MACHINE LEARNING AND DEEP LEARNING WITH PYTHON GUI The objective of this task is to detect hate speech in tweets For the sake of simplicity a tweet contains hate speech if it has a racist or sexist sentiment associated with it So the task is to classify racist or sexist tweets from other tweets Formally given a training sample of tweets and labels where label 1 denotes the tweet is racist sexist and label 0 denotes the tweet is not racist sexist the objective is to predict the labels on the test dataset The models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost LGBM classifier Gradient Boosting XGB classifier LSTM and CNN Three feature scaling used in machine learning are raw minmax scaler and standard scaler Finally you will develop a GUI using PyQt5 to plot cross validation score predicted values versus true values confusion matrix

learning curve decision boundaries performance of the model scalability of the model training loss and training accuracy Book 5 TRAVEL REVIEW RATING CLASSIFICATION AND PREDICTION USING MACHINE LEARNING WITH PYTHON GUI The dataset used in this project has been sourced from the Machine Learning Repository of University of California Irvine UC Irvine Travel Review Ratings Data Set This dataset is populated by capturing user ratings from Google reviews Reviews on attractions from 24 categories across Europe are considered Google user rating ranges from 1 to 5 and average user rating per category is calculated The attributes in the dataset are as follows Attribute 1 Unique user id Attribute 2 Average ratings on churches Attribute 3 Average ratings on resorts Attribute 4 Average ratings on beaches Attribute 5 Average ratings on parks Attribute 6 Average ratings on theatres Attribute 7 Average ratings on museums Attribute 8 Average ratings on malls Attribute 9 Average ratings on zoo Attribute 10 Average ratings on restaurants Attribute 11 Average ratings on pubs bars Attribute 12 Average ratings on local services Attribute 13 Average ratings on burger pizza shops Attribute 14 Average ratings on hotels other lodgings Attribute 15 Average ratings on juice bars Attribute 16 Average ratings on art galleries Attribute 17 Average ratings on dance clubs Attribute 18 Average ratings on swimming pools Attribute 19 Average ratings on gyms Attribute 20 Average ratings on bakeries Attribute 21 Average ratings on beauty Attribute 22 Average ratings on cafes Attribute 23 Average ratings on view points Attribute 24 Average ratings on monuments and Attribute 25 Average ratings on gardens The models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost LGBM classifier Gradient Boosting XGB classifier and MLP classifier Three feature scaling used in machine learning are raw minmax scaler and standard scaler Finally you will develop a GUI using PyQt5 to plot cross validation score predicted values versus true values confusion matrix learning curve decision boundaries performance of the model scalability of the model training loss and training accuracy Book 6 ONLINE RETAIL CLUSTERING AND PREDICTION USING MACHINE LEARNING WITH PYTHON GUI The dataset used in this project is a transnational dataset which contains all the transactions occurring between 01 12 2010 and 09 12 2011 for a UK based and registered non store online retail The company mainly sells unique all occasion gifts Many customers of the company are wholesalers You will be using the online retail transnational dataset to build a RFM clustering and choose the best set of customers which the company should target In this project you will perform Cohort analysis and RFM analysis You will also perform clustering using K Means to get 5 clusters The machine learning models used in this project to predict clusters as target variable are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine LGBM Gradient Boosting XGB and MLP Finally you will plot boundary decision distribution of features feature importance cross validation score and predicted values versus true values confusion matrix learning curve performance of the model scalability of the model training loss and training accuracy **AMAZON STOCK PRICE: VISUALIZATION, FORECASTING, AND PREDICTION USING MACHINE LEARNING WITH PYTHON GUI** Vivian Siahaan,Rismon Hasiholan Sianipar,2023-06-09

Amazon is an American multinational technology company that is known for its e commerce cloud computing digital streaming and artificial intelligence services It was founded by Jeff Bezos in 1994 and is headquartered in Seattle Washington Amazon s primary business is its online marketplace where it offers a wide range of products including books electronics household items and more The company has expanded its operations to various countries and is one of the largest online retailers globally In addition to its e commerce business Amazon has ventured into other areas It provides cloud computing services through Amazon Web Services AWS which offers on demand computing power storage and other services to individuals businesses and governments AWS has become a significant revenue source for Amazon Amazon has also made a significant impact on the entertainment industry It operates Amazon Prime Video a streaming platform that offers a wide selection of movies TV shows and original content As for Amazon s stock price it has experienced substantial growth since the company went public in 1997 The stock has been highly valued by investors due to Amazon s consistent revenue growth market dominance and innovation The stock price has seen both ups and downs over the years reflecting market trends and investor sentiment The dataset used in this project starts from 14 May 1997 and is updated till 27 Oct 2021 It contains 6155 rows and 7 columns The columns in the dataset are Date Open High Low Close Adj Close and Volume In this project you will involve technical indicators such as daily returns Moving Average Convergence Divergence MACD Relative Strength Index RSI Simple Moving Average SMA lower and upper bands and standard deviation To perform forecasting based on regression on Adj Close price of Amazon stock price you will use Linear Regression Random Forest regression Decision Tree regression Support Vector Machine regression Na ve Bayes regression K Nearest Neighbor regression Adaboost regression Gradient Boosting regression Extreme Gradient Boosting regression Light Gradient Boosting regression Catboost regression MLP regression Lasso regression and Ridge regression The machine learning models used predict Amazon stock daily returns as target variable are K Nearest Neighbor classifier Random Forest classifier Naive Bayes classifier Logistic Regression classifier Decision Tree classifier Support Vector Machine classifier LGBM classifier Gradient Boosting classifier XGB classifier MLP classifier and Extra Trees classifier Finally you will develop GUI to plot boundary decision distribution of features feature importance predicted values versus true values confusion matrix learning curve performance of the model and scalability of the model

Unveiling the Energy of Verbal Artistry: An Mental Sojourn through **Android Quick Study**

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