



Abdul Rafay

Data Scientist

 Karachi, Pakistan

I am a highly motivated and passionate Data Scientist whose dream is to use my talents in machine learning/AI and statistical analysis to solve real-world problems and make the customer achieve more, having practical experience in data analysis, data visualization, and different areas of machine learning. Seeking an entry position in the Data Science/Machine Learning field to leverage skills and gain more practical work experience.



Work Experience



Data science & Business Analytics Intern, The Spark Foundation

May 2021 - May 2021

I developed Machine Learning model using Supervised and Unsupervised Learning techniques :

- Developed a Linear Regression model that will predict student percentage based on how longer they study in a day.
- Developed a Decision Tree model that will classify Iris species.
- Developed a KMeans Clustering model that segment Iris data into optimum clusters.



Data science & Analytics Intern, Practicum Digital

Mar 2021 - Apr 2021

Education



Dawood University of Engineering and Technology

Bachelor of Engineering and Technology

2017 - 2020

Skills



Machine Learning: Classification, Clustering, Regression, Fraud Detection, Natural Language Processing, Dimensionality Reduction

Programming Language: Python, C++

Libraries: Numpy, Pandas, Scikit-Learn

Visualization: Tableau, Power BI, Plotly, Python (Matplotlib, Seaborn)

Version Control System: Git

Database: MySQL

Cloud Platform: IBM Watson, Google Cloud Platform

Certifications



Python

Cisco Networking Academy

Feb 2020

Machine Learning

Coursera (By Stanford University)

May 2020

Introduction to Machine Learning

Udacity (By School of Artificial Intelligence)

Jan 2021

Introduction to Git & GitHub

Udacity (By Google)

Sep 2020

Introduction to Computer Vision wit IBM Watson & OpenCV

Udacity (By IBM)

Jan 2020

Projects



Stock Price trend prediction Using Time Series Analysis

Apr 2021

The main focus of the project is to determine if there is any correlation between the two stocks using different correlation algorithms. Created statistical descriptive analysis and inferential analysis of the daily stock price (for both Social Media Platforms) and plotted the relevant diagrams.

Optimum Custer Prediction using Unsupervised Learning

May 2021

The goal of this project is to use unsupervised learning technique to cluster Iris data and find the optimum number of clusters that minimizes the error.

Iris Species Classification Using Decision Tree

May 2021

The project aims at developing a model using supervised learning technique that will classify species of Iris Plant. Decision Tree algorithm is used for model training.

Customer Churn Prediction Model

Jan 2021

The project based on the analysis of speculation about customer deviation, development of a predictive model for possibly to predict potential customer deviations and formulate recommended insights on all findings through the project and the proposed solution.

Annual Salary Prediction

Feb 2021

The analysis of realistic transaction behavior observed in ANZ's actual transaction data and building of a regression model to predict the annual salary for each customer using the attributes observed in the analysis.

Detection Spam Message Detection

Nov 2020

A machine learning model with ability to classify messages type 'HAM' and 'SPAM'(the message contain fraud content or genuine message). The model is trained using different algorithm including SVM, Logistic regression and Naive Bayes.

Online Transaction Fraud Detection (Credit Card)

Dec 20202

A machine learning based model capable of classify 'Fraud' and 'Genuine' transaction. The mode is trained using XGBoost learning algorithm.

Accomplishments



ANZ DATA@ANZ Virtual Experience Program

2021

Participated in the ANZ DATA@ANZ Virtual Experience Program with Forage.

Completed modules included:

- Exploratory Data Analysis
- Predictive Analysis

BCG Data Science & Advanced Analytics Virtual Experience Program

2021

Participated in the Boston Consulting Group's open-access Data Science & Advanced Analytics virtual Experience Program with Forage.

Completed modules included:

- Business Understanding & Problem Framing
- Exploratory Data Analysis & Data Cleaning
- Feature Engineering
- Modeling & Evaluation
- Insights & Recommendation

JPMORGAN Virtual Experience Program

2020

Participated in the open access JPMorgan Software Engineering Virtual Experience Program with Forage.

Completed task included:

- Interface with a Stock Price Data Feed
- Use JPMorgan Chase Frameworks and Tools
- Display Data Visually for traders

Google Cloud's CLOUDSEEKHO 2

2020

Participant at the Google Cloud's CLOUDSEEKHO Season 2

Completed task included:

- Intro to ML: Image Processing
- Intro to ML: Language Processing
- Data Engineering
- BigQuery Basics for Data Analysts
- Integrate with ML APIs
- Explore ML models with Explainable AI

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