



Pramuditha Rathnayake

Bsc (Hons) in Statistics
Undergraduate

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Soft Skills

- Communication
- Collaboration
- Curiosity
- Creativity
- Data storytelling

Sports & Activities

- Karate - Silver and Bronze medalist (Kata and Kumite)
- Taekwondo - Silver medalist
- Track & Field Athlete (100m, 200m)
- Cadet Officer
- Choir Conductor
- Lead Vocalist & Pianist

Work History

Senior Tele Calling Agent

Nations Trust Bank PLC
2018 - 2020

Projects

Machine Learning

Diabetes prediction web app

- For creating the ML model, I used Support Vector model. The data set contained about 700 data points and the data points were standardized using StandardScaler library from sklearn. After training the model with the data I got the accuracy score for test data as 77.27% and the accuracy score for train data displayed as 78.67%, which indicates that the model hasn't been over trained. To deploy the web app, I used SPYDER and Streamlit.

Machine Learning model Sonar vs Rock Detection

- For this model I used a Logistic Regression model. The data set contained about 200 data points. The accuracy score for train data displayed as 83.42% and the accuracy score for test data displayed as 76.19%. The model could correctly identify a Mine from a Rock.

Movie Recommendation System

- This movie recommendation system was built from scratch. The idea that I used was about using similarity scores. I used libraries like difflib, sklearn. I used the TfidfVectorizer to transform my variables into feature vectors. Then I used cosine similarity to get the similarity scores. By using difflib I was able to find the close matches. The movie recommendation system was built to recommend 30 movies when a user enter their favorite movie name as the input.

Machine Learning Model to Classify Irisi Flowers

- Used a Support vector machine learning model to build a classifier for the famous Iris data set (from Kaggle).
- A descriptive analysis was performed using python to understand the data set before proceeding with the Machine Learning model.

Microsoft Power BI

Sales Analysis Dashboard using Power BI

- Used data cleaning/feature engineering techniques to address missing values, transform data, identify outliers.

HR Analytics 1

- A Power Bi dashboard was created to display insights on how HR employee's attendance was in 3 months. I used power query editor to create a template that could be reused for the other two data tables. Finally, I invoked a custom function to automate the process.

Personal Finance Dashboard using Power BI

- Created an interactive dashboard for a sample personal finance data set.

Python

Performance-Analysis-of-UFC-fighters-using-Python

- Aggregated and visualized the data by using pandas, matplotlib and seaborn to compile a professional report. Created a predictive machine learning model.

Sales-and-Product-Performance-Analysis-using-Python

- Analyzed overall sales performance of a sample store data set and created visualizations using matplotlib and seaborn libraries.

MySQL Workbench

Data Science Salaries Analysis using MySQL

- Implemented an analysis on how employees in Data industry earn comparing to several factors.

Sales Analysis Using MySQL

- Created a simple table that included certain sales details for certain products from scratch using MySQL workbench.

Skills

- MySQL
- Python (Pandas, NumPy, Seaborn, Matplotlib, scikit learn, streamlit, spyder, deployment)
- Microsoft Power BI
- Excel (VLOOKUP, Conditional Formatting, Pivot Tables)
- R - Language
- Machine Learning
- AWS (IAM)
- Google Analytics

Certifications & Courses

- TATA Data Visualization: Empowering businesses with effective insights Job Simulation on FORAGE. Nov 2023
- Electronic Arts - Product Management Job Simulation Nov 2023
- AI/ML Engineer Stage 1 | Faculty of Computing SLITT June 2023
- Python for beginners | University of Moratuwa June 2023

Education

Bsc (Hons) in Statistics Sep 2020 - Present
University of Jaffna

Secondary Education Jan 2010 - Aug 2018
De Mazenod College

References

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