Prarthana Sewmini

BSc (Hons) in Data Science (UG)

- GitHub
- Website
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- Colombo, Sri Lanka

Education

B.Sc. (Hons) in Data Science and Business Analytics   2022 – present
General Sir John Kotelawala Defence University

GCE Advanced Level Examination – Physical Science Stream   2011 – 2020
Anula Vidyalaya, Nugegoda

Core Skills

Data Science & Machine Learning
Scikit-learn, Pandas, NumPy, Keras, TensorFlow, OpenCV, NLP , Time Series Forecasting

Programming Languages
Python, R, SQL, C++

Version Control
GitHub

Data Analysis & Visualization
Exploratory Data Analysis (EDA), Data Preprocessing, Feature Engineering, Pandas, Matplotlib, Seaborn

Web Development
Streamlit (for interactive dashboards), basic web technologies (HTML, CSS)

Certifications

- Oracle Cloud Infrastructure 2024 Certified AI Foundations Associate ⬀
- Academy Accreditation - Generative AI Fundamentals (Databricks) ⬀
- Artificial Intelligence Fundamentals (IBM) ⬀
- AWS Educate Machine Learning Foundations ⬀
- AWS Educate Introduction to Generative AI ⬀
- Machine Learning for Data Science Projects (IBM) ⬀

Projects

Future Tourist Arrivals Forecast, *(Sem 6 Project)* ⬀
Analyzed and forecasted Sri Lanka's tourist arrivals (2000–2023) using statistical and machine learning models to identify trends and support strategic planning for policymakers and stakeholders.

Analyzing Consumer Sentiments in the iPhone 15 vs Samsung S24 Ultra Launches through VOSON Analysis, *(Sem 5 Project)* ⬀
Conducted detailed sentiment analysis on YouTube comments for iPhone 15 and Samsung S24 Ultra launches using VOSON dashboard and network graph analysis to extract key consumer preferences and marketing insights.

Classify Wheat Seed Varieties with ANN, *(Sem 5 Project)* ⍈
Developed an ANN to classify wheat seed varieties using 210 samples and seven features. Performed EDA, data preprocessing , and built a model.

Fetal Health Probability Model, *(Self-Paced)* ⍈
Developed a fetal health probability model using Gradient Boost Classifier to predict the likelihood of fetal conditions.

Honors and Awards

Regression with an Insurance Dataset - Playground Series - Season 4, Episode 12, *Kaggle* ⍈
Participation

TechTriathalon 2024, *Rootcode* ⍈
First Rounds

Other

Student Member, *IEEE Student Branch of KDU*	2023 – present
Student Member, *English Literacy Club KDU*	2023 – present
Member, *Leo Club of Colombo Host*	2020 – present
Media Director, *Anula Vidyalaya Youth Association*	2022 – 2023

References

Ms. RGUI Meththananda, *Senior Lecturer Grade II,*
Department of Computational Mathematics, Faculty of Computing,
General Sir John Kotelawala Defence University
umameththananda@kdu.ac.lk, +94 71 925 0752

Ms. SM Manusha Lakmali, *Lecturer,*
Department of Computational Mathematics, Faculty of Computing,
General Sir John Kotelawala Defence University
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