ARAVIND RAMESHBABU

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SUMMARY

MSc Data Science graduate with hands-on experience in Python, SQL, Power BI, and machine learning through academic projects and internships at Accenture and KPMG. Experienced in data cleaning, exploratory data analysis, and visualization to generate actionable insights. Strong foundation in building and evaluating predictive models using real-world datasets.

TECHNICAL SKILLS

Programming Languages: Python, Java, R, C#, SQL
Data Analysis and Visualisation: Pandas, Numpy, Matplotlib, Power BI, tableau, Seaborn, Excel
Machine Learning: Regression, Classification, Tree Ensembles, Scikit-learn
Deep Learning: TensorFlow, PyTorch, Keras
Other Tools: Git, GitHub, Jupyter Notebook, VS Code

PROJECTS

Wind Energy Forecasting using SCADA Dataset
- Worked well with large-scale wind turbine SCADA data, handling missing values and inconsistencies using Python and Pandas
- Built machine learning and deep learning models to predict wind energy over a period of time.
- Performed feature engineering and compared model performance using RMSE, MAE, and MAPE
- Tools used: Python, Pandas, Scikit-learn, TensorFlow, Matplotlib

AutoTrader Car Sales Analysis
- Analysed vehicle sales data to understand factors influencing car pricing and demand
- Performed exploratory data analysis and automated feature selection to improve model performance
- Used ensemble models and SHAP to explain predictions and generate actionable insights
- Tools: Python, Scikit-learn, SHAP

AI Enhanced Video Sequence Description Generator
- Developed an AI-based system to automatically generate meaningful textual descriptions from video sequences to overcome the latency of the descriptions with the audio.
- Performed data preprocessing and feature extraction to improve model understanding of video frames
- Applied machine learning techniques to train and evaluate the description generation model
- Research outcomes were published in an IEEE international conference
- Tools: Python, Machine Learning

WORK EXPERIENCE

Data Analytics and Visualization Intern

Accenture | Jan 2024 – May 2024

- Developed interactive dashboards using **Power BI** and **Tableau** tools that transformed complex data findings into meaningful insights to support decision making.

- Gained a comprehensive understanding of project requirements and objectives, **collaborated with the team members** to define scope and deliverables and translated them into **visual analytics solutions**.
- Executed **data cleaning**, **preprocessing, feature transformation,** and **modelling** to ensure data quality, enhancing data usability and insight generation.

Data Science Intern – Open Weaver

ICT Academy | Oct 2023 – Nov 2023

- Conducted **data analysis** using **Excel** and **SQL** for the datasets and generated automated reports to support the operations and identified trends.
- Worked closely with teammates during remote sprints, learning how to collaborate effectively and keep projects moving in a fast-paced, virtual setup.
- Applied **Python** and **Java** in hands-on coding assignments that reinforced foundational programming and automation techniques.

Data Analytics Intern

KPMG | Mar 2023 – Sept 2023

- Conducted thorough **data cleaning**, **transforming** and **validating** large datasets using **Python** and **SQL**, ensuring high **data quality**, accuracy and consistency.
- Extracted various insights related to customer behaviour and key market trends using **exploratory data analysis** and some statistical methods.
- Developed and presented interactive data visualization dashboards and reports using **Power BI** to communicate the findings to non-technical stakeholders.

EDUCATION

- MSc in Data Science, Manchester Metropolitan University, UK | 2024 – 2025
- B.E. in Computer Science Engineering, Rajalakshmi Engineering College, India | 2020 – 2024

CERTIFICATIONS

- **AWS -** Machine Learning Terminology and Process
- **IBM -** Artificial Intelligence Concepts
- **INFOSYS -** Database Management Systems
- **MATHWORKS -** Machine Learning
- **INFOSYS -** Java Programming Fundamentals
- **UIPATH -** Robotic Process Automation v4.0

PUBLICATIONS

AI Enhanced Video Sequence Description Generator
A. R., A. G., and S. N.
Proceedings of the International Conference on Advances in Data Engineering and Intelligent Computing Systems (ADICS), 2024.
DOI: 10.1109/ADICS58448.2024.10533487