Osada Induwara

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Summary

With over 1.5 years of experience in software engineering and business intelligence, I have actively contributed to the development of machine learning models and dashboard web applications to address critical business needs. I have a strong foundation in mathematics, AI, and practical problem-solving. Now, I am seeking a full-time position as a **Machine Learning Engineer** to utilize my skills in developing scalable ML infrastructure, optimizing models, and integrating them into production systems.

Education

Higher Education

Institute of Technology University of Moratuwa
National Diploma Technology in Information Technology (NDT)
2019 - 2022

Wolverhampton University
Bachelor of Science Computer Science (Software Engineering) Second Class (2nd division)
28th June 2023

Secondary Education
Dutugemunu College Buttala
GCE (A/L) 2017 Physical Science Stream, (Combined Mathematics Chemistry Physics - A C C)
2003 - 2017

Professional Experience

Dialog Axiata PLC   **May 2022 - April 2023**
Former business inteligence developer (Internship)
Accomplishments:

- Found a solution to detect fraud situations in electricity usage of sites using ML.
- Used deep learning techniques.
- Developed AutoML pipelines.
- Worked with network analysis and automation support team to detect anomalies of data usage.
- Developed tools to increase efficiency of analytics.

Software Developer at Telecommunication Regulatory Commission   **Oct 2021 - April 2022**
Sri Lanka
Former software developer (Internship)
Accomplishments:

- Developed and maintained a dashboard web application using Django.
- Design a database to manage service provider's data.

Projects / Hands on experiences

HIndoor navigation system

- Bluetooth Beacons
- Arduino for build beacon devices.
- Flutter Mobile application.

Dashboard Web Application

- Django backend with bootstrap frontend
- MySQL database

Career guidance system powered by machine learning.

- Django web application
- Regression model

Electricity usage forecasting of Signal towers

- Energy forecasting for signal towers, leveraging both Artificial Neural Networks (ANN) and the FLAML automated machine learning toolkit. I was able to generate more accurate energy forecasts for signal towers by utilizing the aforementioned advanced techniques.

Apache Superset

- Apache Superset visualization of QGIS data exported through Postgres SQL. This involved designing, developing, and deploying interactive data visualizations utilizing Apache Superset, a business intelligence platform, to showcase geographic data.

Technical Skills and Tools

Skills
- Machine Learning, Deep Learning, Analytical Skills, Natural Language Processing (NLP), Data Preprocessing, Feature Engineering, Model Tuning and Hyperparameter Optimization, Cross-Validation, Anomaly Detection, DevOps and CI/CD
- Experience in using AI tools like ChatGPT and other alternatives, if required

Libraries and Frameworks
- scikit-learn, NumPy, SciPy, Pandas, TensorFlow, PyTorch, Django, FLAML, H20, XGBoost

Technologies
- Python, PostgreSQL, AWS, Google Cloud, Docker, GIT, Jira, RESTful APIs

Software Tools
- Apache Spark, Google Colab, Qgis, Apache Superset, Visual Studio Code, Jupyter Notebook

Soft Skills

- Analytical Thinking, Problem-Solving, Curiosity and Learning Agility, Collaboration and Teamwork, Open-mindedness.

Referee

- **DR.MRS K Galappaththi**
  Head of the division of IT
  Institute of Technology University, of Moratuwa
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