PAVITHRA P

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SUMMARY

Design engineer shifting to Data field, with strong Python, SQL and AWS cloud skills. Experienced in data analysis and predictive modeling for AI-driven automation and product optimization.

SKILLS

- Programming Languages: Python, SQL
- Frameworks & Technologies: Apache Spark, Apache Hadoop, Airflow
- Cloud Platforms & APIs: AWS, REST-like APIs
- Containerization & Orchestration: Docker
- Data Science & Analytics: Machine Learning, Time-Series Analysis, NLP, Data Visualization(PowerBi), Feature Engineering, Model development

WORK EXPERIENCE

Product Design Engineer , BEML Ltd

Designed and tested automotive ECUs, ensuring compliance with ISO 26262 functional safety standards.

- Hands on experience in AI project, OFMS.
- Integrated CAN-based ECUs with vehicle power systems, troubleshooting hardware-software interaction.
- Reduced electronic failure rate by 40% by troubleshooting and providing root cause analysis.
- Worked with supply chain to manage electrical BOMs and provided a technical insight that reduced cost on sourcing electrical parts by 25%.

Data Science in Python Intern, DataMites

- Implemented predictive models that improved business insights projects using Python.
- Collaborated with cross-functional teams to analyze data, develop models.
- Deployed the implemented model using Azure and REST API.

REVELANT PROJECTS

AI -Powered Oil Condition Monitoring System : LINK

- This project simulates live oil sensor data from multiple vehicles, stores it in a cloud database, and visualizes it on a live dashboard, trained ML model also predicts oil health status (‘Good’/ ‘Critical’) based on sensor readings.
- When oil viscosity or levels cross critical thresholds, automatic alerts are triggered and sent via Telegram Bot.

ML Customer Value Project: LINK

- End to end ML system, that uses real transaction data from APIs, trains three ML models to segment customers.
- Predict their spending behavior, and automatically creates targeted offers that can increase customer engagement by up to 40%.

Analysis of X-Ray and CT Scan images for predicting lung infection using ML: LINK

- Developed and implemented a machine learning pipeline for predicting lung infection from medical images, leveraging image processing techniques, model development and various ML classifiers.
- Utilized Python with key libraries such as NumPy, Matplotlib, and scikit-learn for data manipulation, visualization

CERTIFICATIONS

- AWS- Machine Learning
- AWS - Cloud
- Google - Python
- Data science

EDUCATION

Dr. T. Thimmaiah Institute of Technology - B.E - ECE , with 7.8 CGPA