PAVITHRA P

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SUMMARY

Technical support 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 (Oracle, MySQL), Pyspark
- Frameworks & Technologies: Apache Spark, Apache Hadoop, Airflow
- Cloud Platforms: AWS(including Redshift), Azure(Synapse Analytics)
- APIs: REST-like APIs
- Containerization & Orchestration: Docker, Kubernetes
- Data Science & Analytics: Machine Learning, Time-Series Analysis, NLP, Data Visualization(PowerBi), Feature Engineering, Model development,

WORK EXPERIENCE

Technical support , JoulestoWatts **May 2025 - Aug 2025**

- Worked with technical support team in diagnosing and resolving softwares and hardware issues for desktops and laptop systems.
- Conducted root cause analysis for recurring technical issues and documented solutions for future reference.
- Provided end user support through phone and email, achieving an 88% satisfaction rating from the customers.

Product Design Engineer , BEML Ltd **Feb 2024 - Jan 2025**

- 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.

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.
- When oil viscosity or levels cross critical thresholds, automatic alerts are triggered and sent via Telegram Bot.
- A trained ML model also predicts oil health status (‘Good’, ‘Warning’, ‘Critical’) based on sensor readings.

Analysis of X-Ray and CT Scan images for predicting lung infection usinf ML

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

CERTIFICATIONS

- Cisco : IoT Fundamentals: Connecting Things
- Cisco Networking Academy : PCAP- Programming Essentials in Python
- Data science

EDUCATION

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