Prathik B S

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github.com/prathikbsgowda | Portfolio

Objective

Data Scientist with 2.5 years of experience in building and deploying machine learning solutions using Python, SQL, and AWS. Proficient in model development with Pandas, scikit-learn, and LLMs, with hands-on experience in GenAI frameworks like RAG and MCP-Agentic. Skilled in deploying models via FastAPI, Django, and Hugging Face, and delivering scalable, production-ready AI systems aligned with business needs.

Key Skills

Programming Languages: Python, SQL, R
Data Analysis: Pandas, NumPy, EDA
Machine Learning: Scikit-learn, TensorFlow, LLM
Data Visualization: Tableau, Matplotlib, Seaborn
Cloud & Big Data: AWS, PySpark
Web Development & APIs: Django, RESTful APIs, JavaScript, HTML, CSS

Professional Experience

Data Scientist   **Feb 2023 – Present**
Centre for Integrative Omics Data Science (CIODS)

- Built and deployed ML models (regression, classification, time series) using Python, scikit-learn, and Prophet for forecasting tasks.
- Implemented GenAI pipelines including RAG and MCP-Agentic systems for intelligent information retrieval and planning.
- Developed and deployed a RAG-based chatbot using LLMs, FAISS, and LangChain for domain-specific Q&A, integrated via FastAPI with CI/CD-enabled updates.
- Performed data extraction, cleaning, and feature engineering using SQL and Python to optimize model performance.
- Deployed ML and LLM models using FastAPI, Django, and Hugging Face for real-time production use cases.
- Built CI/CD pipelines with GitHub Actions and Docker to automate model training, testing, and deployment.
- Monitored deployed models for drift, scheduled retraining, and maintained version control for reproducibility.
- Collaborated with cross-functional teams to align AI solutions with business goals and presented actionable insights to stakeholders.

Data Science Intern, Knowledge Solutions India (Affiliated with Microsoft)   Feb 2021 – Apr 2021

- Developed machine learning models for data analysis and prediction tasks, improving accuracy by 15%.
- Conducted exploratory data analysis (EDA) to uncover trends and patterns, facilitating data-driven decision-making.
- Created visualizations using Matplotlib and Seaborn to communicate findings effectively to stakeholders.

Education

Bachelor of Information Science and Engineering,   2019 - 2023
Visvesvaraya Technological University
CGPA: 8.98

Certifications

SQL (Advanced) – HackerRank
Introduction to Data Science in Python – University of Michigan
Tableau Training – Simplilearn

Publications

Elucidating the phosphoregulatory network of predominant phosphosite in AXL kinase: an integrative bioinformatic approach, **Springer**	2024
A global phosphosite-correlated network map of Thousand And One Kinase 1 , **ScienceDirect**	2024
Crop Maturity Detection and Automatic Sprinkler Irrigation using IoT and Machine Learning, **HBRP**	2024