RAGHAVA RAM

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Professional Summary

Highly motivated AI/ML enthusiast with hands-on experience in intelligent solution development, including machine learning, deep learning, and MLOps pipelines. Proficient in Python, model deployment, and cloud tools like AWS. Proven ability to deliver real-world projects through internships and personal initiatives. Actively exploring AI interaction and frontend integration for immersive experiences.

Technical Skills

- **Languages & Libraries:** Python, Java, SQL, NumPy, Pandas, Scikit-learn, NLTK, YAML
- **Machine Learning:** Supervised Learning, Unsupervised Learning, Feature Engineering, Model Evaluation, Regression, Classification, Clustering
- **Deep Learning:** Neural Networks, CNNs, RNNs, LSTM, Transfer Learning, TensorFlow, Keras
- **MLOps & DevOps:** DVC, MLflow, Docker, GitHub Actions, AWS S3, AWS IAM, CI/CD
- **Data Visualization:** Tableau, Power BI, Matplotlib, Plotly, Seaborn
- **Tools & Frameworks:** Flask, Streamlit, Git, Firebase, MongoDB, MySQL, VS Code

Projects

Flask AI Chatbot
Developed and deployed an AI-powered chatbot application using Flask for the backend. Integrated machine learning models for NLU and designed a user-friendly interface.

Medicine Recommendation System – Healthcare AI
Built an SVC-based system to recommend medicines based on patient symptoms. Used Pandas for preprocessing and analysis.

Kidney Disease Classification – Deep Learning
Constructed a CNN model for early detection of kidney disease using TensorFlow and Keras. Used Pandas for data handling.

Vehicle Insurance Data Pipeline – MLOps
Engineered an MLOps pipeline for insurance claim prediction. Integrated MLflow, DVC, Docker, and CI/CD for automation.

Spam or Ham Detection – MLOps + NLP
Developed a spam detection system using NLP and scikit-learn. Incorporated DVC and AWS S3 into a complete MLOps pipeline.

CI/CD & Docker Implementation – DevOps
Containerized ML solutions using Docker and deployed them with GitHub Actions and Flask for consistent CI/CD workflows.

Certifications

- Data Analyst – Analytics Vidhya
- Mastering Python, Pandas, NumPy – Udemy
- AI Foundation & AI Advance – Hexart.in

- GitHub & Python – Udemy

- Power BI – Udemy, Office Master

- AWS – Workshop

- Tableau & Twitter Sentiment Analysis – Analytics Vidhya

- ML Connect – Workshop

Experience

Intern – APSCHE-IIDT-Blackbucks *Jun 2024 – Jul 2024*

Worked on a Generative AI-based Movie Recommendation System. Gained practical experience in AI model development using Python and improved skills through daily tasks.

Education

BTech – Artificial Intelligence & Machine Learning

SRKR Engineering College *CGPA: 8.7*