VARUN WOODI RAGHAVENDRA

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SUMMARY

Aspiring ML & Data Science Specialist with 3+ years of industrial and project experience in machine learning, deep learning, and AI model development. Demonstrated ability to fine-tune advanced models, create user-friendly interfaces, and leverage data-driven insights to solve complex business problems. Seeking opportunities to apply and expand skills in both data science and AI, contributing to organizational growth and innovation.

TECHNICAL SKILLS

Languages Python, R, MATLAB.

Frameworks TensorFlow, PyTorch, LangChain, Apache Spark, Airflow, Flask.

Libraries OpenCV, Pandas, NumPy, Scikit-learn, Seaborn, Hugging Face, Chainlit, Streamlit, Gradio, Deepspeed.

Machine Learning Linear & Logistic Regression, Boosting, Bagging, SVM, Naive Bayes, PCA, Forecasting.

MLOps CI/CD, Docker, MLflow, Kubeflow, Model Monitoring, Version Control

Deep Learning. ANN, CNN, RNN, LSTM, Encoder-Decoder, Transformers, Computer vision, Natural Language Processing.

LLMs Prompt Engineering, Fine-Tuning, RAG, Multimodal LLMs.

Mathematics Statistics & Probability, Calculus, Linear Algebra, A/B testing, Hypothesis Testing.

Visualisation Tools Power BI, Tableau.

Database MySQL, PostgreSQL, MongoDB.

Cloud Platforms AWS (SageMaker, S3, Lambda), Azure (Azure ML).

WORK EXPERIENCE

INFOSYS Ltd, Bangalore, India

MAY 2021-AUG 2022

SYSTEMS ENGINEER

- Designed and ran experiments for time series data, improving forecast accuracy by 15%.
- Contributed to projects aimed at enhancing pacemaker device safety by developing and testing Python scripts for real-time
 performance analysis. Improved testing efficiency by 30%.
- Evangelized new machine learning technologies within the team and trained colleagues on adopting ML techniques.

VARUN ENTERPRISES, Bangalore, India

SEP 2020-APR 2021

DATA SCIENTIST

- Spearheaded development and deployment of CNN models for thread nut anomaly detection, boosting revenue by 12%.
- Transitioned custom CNN models from research into product using Flask, resulting in a 50% reduction in false positives.

HCL TECHNOLOGIES, Bangalore, India

SOFTWARE ENGINEER

DEC 2018-DEC 2019

- Maintained and troubleshot trading applications, achieving a 95% resolution rate for production issues within 24 hours.
- Implemented SQL queries for real-time data modifications, reducing system downtime by 20%.

ACADEMIC PROJECTS

Multimodal LLM-powered Medical Image Analysis

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JAN 2024 – AUG 2024

- Developed a large-scale Multimodal-LLM system to enhance diagnostic accuracy, transitioning it from research to product.
- Fine-tuned IDEFICS2, LLaVA 1.5 7B, and LLaVA-Med models and built a seamless Gradio interface to help medical professionals interact with these models.
- Demonstrated significant advancements in brain MRI image analysis using **AI-driven automation**, which aligns with real-world AI product development.

Scalable ML Deployment with AWS

FEB2024 - MAY 2024

- Built automated data ingestion and transformation pipelines. Trained and optimized models, with **Ridge Regression** achieving the highest performance (R2 score : 0.88).
- Deployed the model on AWS Elastic Beanstalk using EC2 for scalable, real-time predictions. Integrated AWS services (EC2, ECR, Beanstalk) for cloud deployment. Implemented CI/CD with Git for seamless updates and scalability.

EDUCATION

UNIVERSITY OF MASSACHUSETTS, DARTMOUTH

AUG 2024

Master's in Data Science

GPA3.97/4.0

NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY, Bangalore, India

JULY 2018

Bachelor of Engineering in Electronics and Communication engineering

GPA: 3.1/4.0