Maruri Sai Rama Linga Reddy

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Education

Vellore Institute of Technology — Andhra Pradesh, IN
Bachelor of Technology in Computer Science and Engineering | GPA: 8.24/10 — *Sep 2022 – Aug 2026*
Coursework: Data, Operating Systems, OOP, Software Engineering (Design Patterns), DBMS, Computer Networks

Technical Skills

Programming Languages: Java, Python, C++, SQL, MySQL
AI/ML: OpenAI GPT, BERT, T5, Transformers, LangChain, Neural Networks, Supervised/Unsupervised Learning, Reinforcement Learning
Libraries: TensorFlow, PyTorch, Keras, scikit-learn, NumPy, Pandas, Seaborn
Cloud/DevOps: AWS (S3, EC2, Lambda), Azure (basic), Docker, Git, Terraform (learning)
Tools: VS Code, Colab, Jupyter, MongoDB, Thunder Client, Tableau (basic), Power BI (basic)

Certifications

AWS Certified: Cloud Practitioner
Oracle: Generative AI Professional
Microsoft: Azure Data Fundamentals
AWS Academy: Cloud Foundations, Architecting
Coding Ninjas: DSA, Java, Python, ML
Coursera : Meta - Introduction to Databases, IBM - Machine Learning with Python

Projects

SpaceX Booster Landing Prediction — *Feb – Apr 2025*

- Built and deployed a machine learning model on AWS (EC2, S3, Lambda) to predict SpaceX booster landing success using a dataset of over 10,000 flight records, along with environmental and historical data.
- Achieved and sustained 88% accuracy with the Decision Tree model, outperforming other algorithms by up to 7%.
- Performed data preprocessing, feature selection, and hyperparameter tuning, resulting in a 15% reduction in model overfitting; evaluated models using cross-validation and performance metrics such as accuracy, precision, recall, and F1-score.

Technologies: Python, scikit-learn, Decision Tree, Matplotlib, Pandas, NumPy, AWS (EC2, S3, Lambda)

Integrated AI Text Assistant — *Jan – Mar 2025*

- Developed a web app with secure authentication, Razorpay gateway, and AI features (T5 text summarization, OpenAI chatbot).
- Engineered a scalable architecture utilizing Node.js, Express, and MongoDB, HTML/CSS/JavaScript, which accelerated performance by 30%.
- Implemented speech-to-text functionality and tested with ThunderClient, ensuring 99% uptime.

Technologies: HTML, CSS, JavaScript, Node.js, Express, MongoDB, Razorpay, Python, OpenAI API, Thunder Client

Bone Fracture Classification — *Feb – Mar 2025*

- Implemented PyTorch model using WideResNet to classify bone fractures in X-rays, achieving 92% accuracy.
- Applied data augmentation to enhance generalization, reducing overfitting by 20%.
- Visualized performance with Matplotlib and Seaborn, reducing misclassification by 15%.

Technologies: Python, PyTorch, WideResNet, Matplotlib, Seaborn

Customer Churn Prediction — *Sep – Nov 2024*

- Developed a large-scale system design for a churn prediction model using Random Forest and machine learning techniques, achieving 99% accuracy on 100,000+ records, reducing churn by 25%.
- Reduced dataset noise by 15% through EDA and preprocessing to improve model reliability.
- Visualized insights with Pandas and Seaborn, enhancing customer retention strategies by 30%.

Technologies: Python, Random Forest, scikit-learn, Pandas, Seaborn

Experience

Photon Club, VITAP University — Andhra Pradesh, IN
Administrator — *Feb 2024 – Apr 2025*

- Drove a 15% increase in VTAPP membership by managing marketing strategies for two major events, enhancing the organization's visibility and attracting new members through targeted outreach initiatives.