

Vishnu Vardhan Reddy Kothapuli

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Professional Summary

Final-year B. Tech (AI) student with hands-on experience building end-to-end ML pipelines and AI-powered applications. Proficient in Python, TensorFlow, and Scikit-Learn, with a strong foundation in machine learning and data-driven problem solving. Developed and deployed production-ready models, including a real-time content moderation system. Experienced in FastAPI, Docker, AWS, and MLOps for scalable AI solutions.

Technical Skills

Languages: Python, SQL, Java

ML / Data Science: Scikit-Learn, Pandas, NumPy, Matplotlib, Seaborn, Feature Engineering, Cross-Validation

Deep Learning & AI: Gen AI, Langchain, CNN, NLP, OCR, Computer Vision, PyTorch

Cloud & MLOps: AWS (S3, EC2), Docker, FastAPI, Git, GitHub Actions

Data Viz & BI: Power BI, Matplotlib, Seaborn, Excel

Databases: MySQL, SQL

CS Fundamentals: Object Oriented Programming, Operating Systems, Computer Networking, Data Structures and Algorithms.

Projects

Sentinel — AI-Based Multi-Modal Content Moderation System

FastAPI, ResNet, CNN, NudeNet, OCR, Docker, MySQL

- Designed and deployed an end-to-end moderation pipeline; engineered a multi-model stack (ResNet + NudeNet + CNN) achieving >90% NSFW classification precision.
- Built OCR-based text extraction for meme content and deployed FastAPI endpoints with MySQL logging.
- Containerized full stack with Docker, reducing cross-environment setup time from hours to minutes.

End-to-End Text Summarizer — NLP Summarization Pipeline

Python, Transformers, Hugging Face, FastAPI, PyTorch, Docker

- Built an end-to-end abstractive text summarization system using a fine-tuned Transformer model; automated data preprocessing, model training, evaluation, and inference through a production-ready pipeline.
- Developed REST APIs with FastAPI for real-time summarization, enabling efficient processing of long-form documents while maintaining coherent and context-aware summaries.
- Containerized the application with Docker for reproducible deployment and streamlined cross-environment setup, supporting scalable inference in production.

Predictive Real Estate Analyzer — ML Regression Pipeline

Python, Scikit-Learn, Pandas, NumPy, Matplotlib, Seaborn

- Built a production-quality regression model for property valuation; achieved $R^2 = 0.89$ and RMSE $\sim \$27K$ on unseen test data using log-scale transforms and 5-fold CV.
- Engineered domain-specific features and produced residual/feature-importance visualizations for stakeholders.

Customer Churn Prediction — Classification & Impact Analysis

Scikit-Learn, Logistic Regression, Random Forest

- Built a binary classification model on 50K+ telecom records; achieved $F1 = 0.84$ and $AUC-ROC = 0.91$. Improved minority-class recall from 54% to 78% via SMOTE.
- Translated model output into a Power BI dashboard highlighting top churn-risk segments.

Education

Bachelor of Technology – CSE (AI & DS) – Parul University 2023-2027

CGPA: 7.10/10

Intermediate – MPC -Narayana Jr College 2021-2023

Percentage: 83.6%

Certifications

- Deloitte Data Analysis Job Simulation - Forage (Sept 2025)
- AWS S3 & EC2 - AWS Training (Dec 2025)
- SQL for Data Science - Simplilearn (Mar 2026)
- SQL (Intermediate) – HackerRank (May 2026)