

# RAJEEV HRUSHIKESH MAMINDLAPELLI

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## SUMMARY

Full-Stack Developer and AI/ML enthusiast pursuing **B.Tech CSE (AIML)** at **VNR VJIET** (CGPA: **8.25**). Enjoy working across the full ML workflow – from messy raw data to a model that actually generalizes. Have built **preprocessing pipelines**, trained and compared multiple classifiers, tuned hyperparameters, and shipped predictions via **FastAPI**. Also experienced in **MERN stack** development with real deployed projects. Solving **500+ DSA problems** keeps the fundamentals sharp.

## EDUCATION

- **VNR Vignana Jyothi Institute of Engineering and Technology** Hyderabad  
*B.Tech – Computer Science and Engineering (AIML); CGPA: 8.25* July 2024 – May 2027
- **Government Polytechnic, Siddipet** Siddipet, Telangana  
*Diploma – Computer Science and Engineering; CGPA: 9.1* Sept 2021 – May 2024

## PROJECTS

- **Customer Churn Prediction System** | *GitHub* | *Live on Hugging Face Spaces*  
*Python, FastAPI, XGBoost, Scikit-learn, MLflow, Optuna, SMOTE, Joblib*
  - Shipped a **production ML system** with a FastAPI `/predict` endpoint and a live web dashboard – built the full pipeline from raw IBM Telco data to a deployed inference API, not just a notebook.
  - Designed an **anti-leakage outlier capping** strategy (99th-percentile limits fit on train data only, serialized as `cap_values.joblib`) and applied SMOTE exclusively on training data – two decisions that show real MLOps discipline.
  - Trained a **soft-voting ensemble** (Logistic Regression + Random Forest + XGBoost) with 50-trial Optuna tuning; validated stability using **95% Bootstrap Confidence Intervals** across 1000 resampling iterations; all runs tracked via **MLflow**.
- **AI-Powered Autonomous Learning Scheduler** | *GitHub* | *Live on Vercel*  
*FastAPI, PostgreSQL, XGBoost, LightGBM, Ollama, ChromaDB, React.js, SHAP, HDBSCAN*
  - Built a **full-stack AI platform** that generates personalized study schedules using a **multi-agent ML system** (Progress, Motivation, Reschedule, Profiling agents) – each agent handles a distinct part of the student’s adaptive learning loop.
  - Integrated a **RAG chatbot** with ChromaDB and Ollama (Llama 3.2) for zero-API-cost syllabus Q&A; used **XGBoost + LightGBM with SHAP** for explainable performance prediction and HDBSCAN for unsupervised student profiling.
- **Semantic Entropy File System (SEFS) – AI File Organizer** | *GitHub*  
*Python, HDBSCAN, Google Gemini API, Embeddings, File System Monitoring*
  - Replaced static folder structures with **dynamic semantic clustering** (HDBSCAN + Gemini embeddings); built event-driven file monitoring that detects changes and auto-reorganizes files – no manual sorting needed.
  - Rendered a **live 2D node-graph** showing file relationships, updating in real time on re-clustering events; bidirectional sync between semantic clusters and the local filesystem.
- **College Management System – MERN Stack** | *GitHub*  
*React.js, Node.js, Express.js, MongoDB, JWT, bcrypt*
  - Built a **role-based MERN application** (Admin, Teacher, Student) with JWT and bcrypt auth, RESTful APIs, and full CRUD – a learning project that solidified how auth, backend routing, and React state management fit together end to end.

## TECHNICAL SKILLS

- **Languages:** C, C++, Python, Java, JavaScript (ES6+)
- **Web and Full-Stack:** React.js, Node.js, Express.js, FastAPI, REST API Design, HTML5, CSS3
- **AI and Machine Learning:** End-to-End ML Pipelines, XGBoost, LightGBM, Scikit-learn, HDBSCAN, SMOTE, Feature Engineering, SHAP, Optuna, MLflow, Embeddings, RAG Systems, LLM API Integration (Gemini, Ollama), ChromaDB
- **Databases:** MongoDB, PostgreSQL, Supabase, ChromaDB (Vector Store)
- **Tools and Platforms:** Git, GitHub, Vercel, Hugging Face Spaces, Google Colab, Postman, VS Code
- **Core CS:** Data Structures and Algorithms, OOP, Operating Systems, DBMS, Computer Networks

## ACHIEVEMENTS AND CERTIFICATIONS

- **3rd Place – Synthetic Data Creation Hackathon**, Krithomedh, VNRVJIET (Feb 2026); participated in **Smart India Hackathon (SIH)** and **VIBE Coding Hackathon**.
- **Silver Certificate – Smart Interviews (DSA)**; Global Rank **4121 / 50,000+**. Solved **500+ problems** on LeetCode.
- **ECET:** Integrated Rank **311**, Branch Rank **179** in Computer Science.
- **1st Place – District Level Chess Competition**, MJP Society Sports and Games.
- **Certifications:** React Bootcamp – LetsUpgrade (NSDC and IITM EduTech, June 2025); Problem Solving Intermediate – HackerRank; Python Programming – Udemy.