

RAHUL PRAJAPATI

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Professional Summary

Aspiring Data Scientist and AI/ML Engineer with a strong academic foundation (B.Tech CSE, CGPA: 8.30) and hands-on experience in LLMs, NLP, and deep learning. Proficient in Python, C++, and ML frameworks such as TensorFlow and PyTorch. Built practical AI systems including an interview simulator and real-time voice converter. Certified by Stanford and Samsung in ML. Qualified GATE 2025. Passionate about solving real-world problems through scalable, intelligent solutions.

Education

Gautam Buddha University

B.Tech in Computer Science Engineering; CGPA: 8.30

Sep 2022 – Present

Greater Noida

Kendriya Vidyalaya Arjangerh

CBSE Class 12: 87.6%

2022

New Delhi

Certifications

Machine Learning Specialization, Stanford University — Certificate

AI/ML Certification, Samsung Innovation Campus — Certificate

Experience

Samsung Innovation Campus

Jun 2024 – Jul 2024

Greater Noida

- Analyzed regional air quality using historical environmental data and traffic reports.
- Preprocessed 29,000+ data rows (normalization, temporal feature extraction).
- Built regression models to predict pollutant levels with over 82% R^2 accuracy.
- Visualized trends using EDA, improving regional forecasting insights.

Key Projects

AI InterviewSim — Python, LangChain, Ollama, FastAPI, StreamLit

Jun 2025

- Built an AI interview platform simulating role-specific Q&A based on user resumes.
- Parsed resumes, generated prompts dynamically using local LLMs (Mistral via Ollama).
- Integrated follow-up logic, voice-to-voice interaction, and performance tracking.
- **GitHub:** github.com/rahulprajapati08/AI-InterviewSim

ToneSwap (Voice Cloning System) — PyTorch, Librosa, WavLM, Gradio

May 2025

- Developed real-time zero-shot voice converter preserving emotion and speech style.
- Integrated WavLM for speaker embedding extraction and inference.
- Enabled sub-3s latency conversion across multiple voice profiles.
- **GitHub:** github.com/rahulprajapati08/ToneSwap

Medicine Recommender System — Python, Scikit-learn

2024

- Suggested medicines using symptom-similarity and content-based filtering.
- Handled preprocessing and implemented TF-IDF similarity scoring.

Simple GenAI Chat App — Streamlit, Ollama

2025

- Built a local chat interface powered by Gemma3:1b model for natural Q&A.
- Designed a minimal prompt interface using Streamlit and Ollama backend.

Technical Skills

Languages: Python, Java, C++, JavaScript, SQL

ML/AI: Supervised Learning, Regression, Classification, NLP, Generative AI, Prompt Engineering, LLMs, Model Evaluation

Frameworks/Libraries: TensorFlow, Keras, PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib, Plotly, Librosa

Tools & Platforms: Git, VS Code, Jupyter Notebook, Streamlit, Gradio, FastAPI, Render, Docker

Other: Web Development (Basic), Android Development (Basic)

Achievements

Qualified **GATE 2025** in Computer Science — AIR: **18041**

Consistent top performer in core subjects: DSA, Algorithms, OS

Portfolio Links

GitHub: github.com/rahulprajapati08

LeetCode: leetcode.com/u/225ucf090/

Portfolio: rahulprajapati08.github.io/Project-2-PortFolio/