KRISHNA VIRADIYA

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LinkedIn | Github | Portfolio

SUMMARY

AI/ML Developer in final year of B.Tech with hands-on experience building intelligent systems and full-stack projects. Proficient in deep learning, NLP, and backend development using Django and Flask. Developed academic and portfolio projects in fraud detection, speaker diarization and OCR automation. Skilled in Python, AI ML, and Data Science.

EXPERIENCE

Academic Associate, GSFC University
Jan 2025 - Nov 2025
Vadodara, Gujarat

- Assisted in delivering lab sessions focused on C and C++ programming fundamentals, including pointers, memory management, OOP concepts, and data structures. Helped students debug code, understand compiler errors, and implement efficient logic.
- Simplified complex topics like dynamic memory allocation, file handling, and class–object architecture through clear explanations and examples.
- Guided junior students in building mini-projects using C/C++. Reviewed their code, suggested optimizations, and ensured adherence to clean coding practices and algorithmic correctness.
- Ensured timely evaluation of submissions and provided actionable feedback to students.

Machine Learning Intern, ONGC
Dec 2024 - Jan 2025
Vadodara, Gujarat

- Developed a real-time voice diarization and transcription pipeline to process multi-speaker audio streams. Implemented speaker segmentation using MFCC features, embeddings, and clustering techniques to identify speaker turns accurately.
- Integrated an automatic speech recognition (ASR) model to generate transcripts in real time, ensuring low latency and high word accuracy. Optimized preprocessing and noise filtering to handle recordings from industrial environments.
- Built an end-to-end workflow combining diarization + ASR, enabling structured output with speaker-labeled text segments.
- Collaborated with mentors to refine model performance, prepare technical documentation, and present findings.

SKILLS

- **Programming Languages:** Python, Java, C++, C
- **Frameworks & Libraries:** TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, Django, Flask
- **Data Science & Analytics:** EDA, Clustering, Classification, Visualization (Matplotlib, Plotly)
- **ML & DL Concepts:** CNNs, RNNs, NLP Pipelines, Feature Engineering, Model Evaluation
- **Tools & Platforms:** Jupyter Notebook, Google Colab, Git, Kaggle, Roboflow
- **Runtime Environment:** Python Runtime, Conda, Virtualenv
- **IDE:** VS Code

EDUCATION

Bachelor of Technology - CSE, GSFC University   **2022 - 2026**
CGPA: 7.84