

Simantini Upendra Rembhotkar

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<https://github.com/simantini07>

EDUCATION

Texas A&M University, College Station

August 2025 - August 2027

Master's in Computer Science

Marathwada Mitra Mandals College of Engineering

June 2020 - June 2024

Bachelor of Computer Engineering, CGPA - 9.64/10

TECHNICAL SKILLS

Languages: Python, C/C++, JavaScript, SQL, HTML/CSS

Frameworks & Libraries: Scikit-Learn, Pandas, NumPy, Matplotlib, Seaborn, TensorFlow, FastAPI, Flask, React, Babylon.js, Three.js, WordPress

Databases: PostgreSQL, MongoDB, Neo4j, SQL

Tools & Software: Visual Studio Code, PyCharm, Jupyter Notebook, GitHub, Git, Microsoft Office, Figma

EXPERIENCE

Software Engineer

June 2024 – June 2025

Equations Work

- Custom Translator: Designed and built a scalable translation platform with customizable dictionary persistence using Node.js MVC architecture, React.js frontend, and Azure Translation API. Enabled users to define translation exceptions and facilitated seamless multilingual file and text processing, supporting enterprise-grade dictionary management.
- Code Interpreter: Developed a code interpreter platform that leverages OpenAI APIs via Azure API Management (APIM) to enable secure Python code execution within a sandboxed environment. Created multiple specialized AI assistants, each tailored for distinct data processing and automation tasks, supported by Flask backend and React.js frontend for responsive user interaction.
- Prophetizer: Developed Prophetizer, an AI-driven tool for stock market analysis based on news impact. Automated news authenticity checks and enrichment, then used OpenAI APIs via APIM to identify affected sectors and forecast relevant stock trends. Built with FastAPI and Babylon.js, the platform features interactive 3D visualizations and AR/VR support for Quest3, guiding users to strategic investment opportunities through real-time analytics.

Software Project Intern

Sept 2023 – May 2024

Equations Work

- Built a web-based image annotation platform allowing users to upload unlabeled datasets and receive automated annotations. Utilized SAM and Grounding DINO to segment unlabeled datasets, and YOLOv8 to autolabel objects detection. The solution automates annotation workflows, achieving a 40% increase in labeling accuracy and scalability for user-uploaded datasets.

Software Engineer Intern

Feb 2023 – May 2023

Steinn Labs

- Built a web platform for a healthcare organization, developing a responsive React.js frontend, integrating a FastAPI backend, and managing relational data with PostgreSQL. Implemented secure user authentication, streamlined data flow between interface and server, and optimized performance for healthcare workflows through efficient REST API design.

PROJECTS

Facial Recognition System with Criminal Identification | *Python, OpenCV*

- Developed a real-time criminal face recognition pipeline using Haar cascades for rapid detection and deep metric learning for high-precision facial encoding, achieving sub-second inference on live webcam feeds. Integrated a cosine similarity engine for robust identity matching and designed a real-time alerting mechanism to enhance security automation.

InquiroAI | *Python, FastAPI, React.js, PostgreSQL, pgvector, Gemini API*

- Developed InquiroAI, a full-stack AI application that lets users upload study materials, auto-generate flashcards, and interact with a custom AI assistant for contextual QA. Integrated document parsing, semantic search with vector embeddings, and the Gemini API for advanced language interaction, using FastAPI, PostgreSQL with pgvector, and a responsive React.js frontend.

CERTIFICATIONS

Core Python for Everyone (Udemy) | AI-ML Virtual Internship (AICTE) | Python for Machine Learning and Data Science Masterclass (Udemy)

Eligible to intern in the U.S. with CPT