MANDAR MAWALE

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Profile

Ambitious Computer Engineering student with hands-on experience through college projects and hackathons. Seeking an internship to build real-world AI systems while growing skills in Agentic AI, LLMs, API integrations, and automation. Comfortable with REST APIs, JSON, and developing solutions using Python with a strong curiosity and builder mindset.

EDUCATION

Bachelor of Technology in Computer Engineering (B.Tech CE)   Navi Mumbai
SARASWATI COLLEGE OF ENGINEERING (MU Affiliated)

Relevant Coursework: Data Structures, Algorithms, Object-Oriented Design, DBMS, Cloud Computing, AI /ML

Professional Experience

Trainee Intern
Campus Credentials 🔗
- Completed a supervised mentoring period under a Campus Recruitment Training Program.
- Mentored and supported 30+ students in Python programming, debugging, and problem-solving.
- Identified and resolved multiple logic and runtime errors, improving program correctness and student outcomes.

Web Developer Intern
Utkarsha Interiors
- Enhanced and maintained the company website, including customer inquiry forms.
- Implemented real-time forwarding of customer requests to the marketing and PR team, reducing response delays.
- Optimized backend data handling and database interactions to ensure reliable storage and retrieval of user submissions.

PROJECT

AgentED – AI-Powered Personalized Study Assistant
Multi-Agent Study Assistant
Tech Stack:Python, FastAPI, LangChain v1, MongoDB, ChromaDB, Next.js, Google Gemini, Tavily
- Built a full-stack AI study assistant using LangChain agents to orchestrate multi-agent workflows for study planning, content retrieval, quizzes, and feedback
- Implemented a RAG pipeline using ChromaDB for vector search, Tavily for web search, and MongoDB for persistent study data
- Designed a modular FastAPI backend handling planning, retrieval, quiz generation, and performance analysis with session-based memory
- Developed a Next.js frontend with authentication, real-time chat, quizzes, and study progress tracking

VoiceCare: Voice-Based Personal Assistant
Voice Assistant Project
Tech Stack:Python, Vosk API, pyttsx3, Tkinter, Speech Recognition
• Developed a desktop voice assistant application that enables users to set reminders and manage tasks using natural language.
• Utilized offline speech recognition and text-to-speech to ensure privacy and responsiveness.
• Designed the assistant to be especially helpful for elderly users.

StreamSync: Globally Synchronized Personalized Video Streaming System
Cloud Based Video Sync Engine
Tech Stack: AWS EC2, S3, CloudFront, Redis, PostgreSQL (Buckets)
• Built a scalable platform delivering pre-stored videos synced to a global timeline for seamless playback.
• Integrated AWS S3 & CloudFront for fast content delivery, Redis for intelligent caching & sync.
 • Engineered backend logic for real-time timestamping and personalized video sequencing.

Certificates

• CS50's Introduction to Programming with Python – Harvard University (edX) 🔗

• Spring Boot for Beginners - AmigosCode 🔗

• Oracle Cloud Associate and Oracle AI Associate 🔗

• Hackathons 🔗

SKILLS

Web & API Development
HTML, CSS, JavaScript, XML, REST APIs

Vector Databases
Pinecone, ChromaDB

Backend Frameworks
Spring, Spring Boot, FastAPI, Flask

Databases & Storage
MySQL, PostgreSQL, DynamoDB, Redis, Firebase, MinIO

AI / LLM & Agentic Systems
LangChain, LangGraph, Gemini AI, Prompt Engineering, Retrieval-Augmented Generation (RAG), Tool Calling

Cloud Platforms
AWS (EC2, CloudFront), Oracle Cloud

Machine Learning & NLP
Scikit-learn, Pandas, NLTK

Tools & IDEs
Git, VS Code, IntelliJ IDEA, Android Studio