Ayush Siddhant

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Education

Symbiosis Institute of Technology, Pune *Expected 2027*
B.Tech in Computer Science & Engineering

Technical Skills

- **Languages**: Python, C++, Java, Flutter, JavaScript
- **Databases**: MongoDB, PostgreSQL, MySQL, Weaviate, SQLite, Redis
- **Technologies & Frameworks**: Node.js, React, Flask, Streamlit, LangChain, WebSockets, Twilio API
- **AI/ML & GenAI**: LLMs & Transformer Architectures, GenAI, Machine Learning, Deep Learning, NLP, Retrieval-Augmented Generation (RAG), Data Science
- **Data Science Tools**: NumPy, Pandas, Matplotlib, Seaborn
- **DevOps & Deployment**: Docker, Kubernetes

Experience

MINTRIX – AI-Based Learning *Jan 2025 – Jun 2025*
AI Developer & Backend Developer Intern

- Developed an RAG chatbot to enhance user interaction on the website.
- Implemented CRM integration to capture and store user data for improved engagement tracking.
- Designed and optimized APIs for seamless integration with AI-based learning systems.
- Built adaptive learning features using AI algorithms to personalize user experiences.
- Contributed to a secure and scalable user authentication system.

CoachLoop – AI Coaching Platform *Freelance*

- Created a platform for users to book one-on-one AI coaching sessions for career, wellness, and skill development.
- Developed a personalized coaching system with session booking, real-time interaction, and integrated payment gateway.
- Engineered a scalable backend using MongoDB and WebSockets for session and user data management.
- Fine-tuned specialized AI models, including a Virtual Trainer, and implemented AI-generated session summaries.

Projects

Learnix – AI-Powered E-Learning Platform
Technologies: Node.js, React, MongoDB, WebRTC, OpenAI API, LangChain

- Built a school onboarding system and admin dashboard to manage teachers, students, and class operations.
- Developed dashboards for students and teachers to track attendance, assignments, events, and progress.
- Created an RAG chatbot to answer class-specific student queries in a controlled environment.
- Implemented an AI-driven assignment generator for personalized academic tasks.

Quick Chat – Real-time Chat Application
Technologies: Node.js, MongoDB, WebSocket, Express

- Developed a real-time chat application with group chat and live user status indicators using WebSockets.
- Built a group-based communication system for room-based chats.
- Integrated an email service to send room codes to participants upon group creation.
- Ensured responsive performance and reliable message delivery.

ForYou – Emotion-Aware Conversational AI Platform
Technologies: MongoDB, OpenAI API, Node.js

- Developed an AI-powered platform that adapts emotional tone based on user sentiment.
- Utilized MongoDB to store user credentials and conversation histories securely.
- Built a user dashboard to track interactions and identify previously engaged AI bots.
- Enhanced engagement with real-time emotion recognition logic influencing AI responses.

Certifications

- Full Stack Web Development – Udemy *2024*
- Machine Learning and Data Science – Udemy *2025*