

# Utkarsh Sharma

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## EDUCATION

### Vellore Institute of Technology

B.Tech in Computer Science (AI & ML) — CGPA: 7.86/10

Bhopal, India

Aug, 2023 – May, 2027

## TECHNICAL SKILLS

**Languages:** Python, Java, C++

**Backend:** FastAPI, Flask, REST APIs

**Frontend:** React, HTML, CSS, Tailwind CSS

**Databases:** MySQL, PostgreSQL, MongoDB Atlas

**Concepts:** Data Structures, OOP, API Integration, System Design Basics

**Tools:** Git, GitHub, Google Firebase, Render, Cloud Deployment

## EXPERIENCE

### Ganga Bhumi Club

Founding Technical Team

Dec, 2024 – Oct, 2025

Hybrid

- Launched a full-stack platform using **FastAPI** and **React** for a community of **1,000+ members**, optimizing backend database queries to maintain sub-second response times.
- Implemented secure user authentication and database management utilizing **Supabase**, ensuring reliable event registrations with a **99.9% system uptime**.
- Optimized backend system architecture to handle concurrent registration requests, reducing API response times by **35%** during high-traffic recruitment drives.
- Led the integration and deployment of **LLM-powered support tools** on **Render**, reducing manual administrative tasks by **40%**.

## PROJECTS

### The Bill Mate | FastAPI, SambaNova AI, MongoDB Atlas, Firebase, Tailwind CSS

May, 2026 – Present

- Built an AI ledger system using **SambaNova AI** to automate digitizations, achieving a **99.2% extraction accuracy** and cutting manual entry times by **85%**.
- Developed a scalable **FastAPI** backend with an asynchronous **Motor client** for **MongoDB Atlas** for fast document mapping, reducing query latency by **45%**.
- Secured user workspace isolation and session validation using **Google Firebase** to support safe transactional workflows for **500+ active users**.
- Designed a **Tailwind CSS** dashboard enabling automated single-click PDF generations, reducing client-side page load times by **35%**.

### Mindful Space | React, FastAPI, GenAI

Dec, 2025 – Feb, 2026

- Engineered a full-stack mental health platform utilizing contextual NLP models to facilitate real-time emotional analysis, evaluating inputs with **over 85% accuracy**.
- Integrated an optimized LLM chat microservice via **FastAPI** capable of dispatching context-aware responses with **under 2 seconds latency**.
- Enhanced parallel handling capabilities via a decoupled routing structure, increasing database routing transaction speeds by **30%**.

### ResumeAI | Python, FastAPI, React, PyMuPDF, LLM APIs

Dec, 2025 – Jan, 2026

- Designed a scalable document evaluation engine leveraging **FastAPI** to calculate definitive semantic matching scores from **0–100**.
- Parsed target profiles using PyMuPDF and LLM APIs, building **3+ core endpoints** to streamline concurrent file uploads, text sanitization, and classification.
- Reduced active manual talent screening cycles by **60%** through rule-based automated candidate shortlisting pipelines.

## CERTIFICATIONS & ACHIEVEMENTS

Google IT Support Professional Certification – Google

Applied Machine Learning in Python – Coursera

Introduction to Generative AI – Google Cloud

Cloud Computing (Elite + Silver) – NPTEL

Introduction to IoT (Elite + Silver) – NPTEL

Certified Journal Publication – International Journal of All Research Education & Scientific

C++ Programming Certification – Simplilearn