

# Yuvraj Singh

Bhopal, Madhya Pradesh | yuvrajsingh.tech@protonmail.com | 893 293 82 68 | yuvraj-ai.github.io/  
linkedin.com/in/imeyuvi/ | github.com/Yuvraj-ai | leetcode.com/u/ys9415648957/

## Professional Summary

---

Highly motivated Computer Science undergraduate with strong fundamentals in object-oriented programming, and data-driven AI systems. Proven experience in developing scalable full-stack and Generative AI projects, solving 200+ algorithmic problems.

## Education

---

**Vellore Institute of Technology, Bhopal**, Bachelor of Technology in Computer Science  
Engineering

Aug 2022 – Mar 2026

CGPA: 8.0/10.0

## Technologies

---

**Languages:** Python, Java, SQL, JavaScript, HTML, CSS

**Frameworks/Libraries:** TensorFlow, PyTorch, FAISS, LangChain, LangGraph, Streamlit, PyQt

**Tools:** Docker, Git, GitHub, RESTful APIs

**Databases:** MySQL, MongoDB

## Projects

---

### Smart Resume Screener | Python, Streamlit, LangGraph, MongoDB, Gemini API

- Developed an AI-powered resume screening system that analyzes and scores resumes against job descriptions on a 0–10 compatibility scale using a multi-node LangGraph pipeline.
- Utilized MongoDB for persistent data storage of screening results, supporting real-time refresh and sorting functionalities.
- Implemented resume parsing, job description analysis, and match scoring using natural language processing and Gemini-based LLM reasoning.
- **Github** [github.com/Yuvraj-ai/Smart-Resume-Screener](https://github.com/Yuvraj-ai/Smart-Resume-Screener)

### YouTube Transcript Summarizer & Q&A System | Python, FAISS, Streamlit, LangChain

- Integrated Google Gemini LLM via LangChain to generate context-rich answers
- Achieved <3s response time using FAISS vector search and Gemini embeddings.
- Secured API key input through runtime entry (no .env usage) for enhanced privacy.
- **Github** [github.com/Yuvraj-ai/Youtube-Video-Summeriser](https://github.com/Yuvraj-ai/Youtube-Video-Summeriser)

### AI Tutor – AI-Powered multi subject tutoring application | Python, Gemini API, HTML, CSS

- Integrated **Google Gemini API** for natural language understanding, enabling domain-specific explanations with step-by-step reasoning.
- Built a **full-stack system**: backend in Python (multi-agent logic, tools like calculator) and frontend in React/Next.js with Tailwind for responsive UI.
- Achieved **seamless query routing** with subject-specific accuracy; deployed prototype on **Vercel** (frontend) and **Railway** (backend).
- **Github** [github.com/Yuvraj-ai/The-GenAI-Subject-Tutor](https://github.com/Yuvraj-ai/The-GenAI-Subject-Tutor)

### SmartMerge – AI-Powered GitHub Branch Merge Assistant | Python, PyQt5, PyGithub, Gemini API

- Collaborated on building a desktop assistant that connects to GitHub repositories and analyzes differences between branches.
- Integrated Gemini API to generate AI-driven merge recommendations and flag potential conflicts proactively.
- Designed a PyQt5-based GUI for intuitive repo/branch selection and merge operation management.
- **Github** [github.com/Yuvraj-ai/SmartMerge](https://github.com/Yuvraj-ai/SmartMerge)

## Certificates

---

Generative AI using **IBM Watsonx** – IBM Career Education Program

**GitHub Foundations Certified** – Proficient in commits, branching, markdown, collaboration

