# Yuvraj Singh

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## 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 – Aug 2026

CGPA: 8.0/10.0

## Technologies

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

**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

**SmartEmailz - AI-Powered Email Productivity Agent | Python, Pandas, RAG, LangChain/LangGraph**

- Developed a **RAG**-based productivity assistant using Google Gemini and LangChain that automates inbox triage, categorizes emails, and extracts action items with high accuracy.
- Engineered a **context-aware agent** capable of switching between general inbox analysis and specific tasks like drafting replies, utilizing LangGraph for managing conversation state.
- Built a full-stack Streamlit application featuring real-time chat, dynamic prompt configuration, and a "**Human-in-the-loop**" draft editor for reviewing AI-generated content.
- **Github** github.com/Yuvraj-ai/SmartEmailz

**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

**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

## Certificates

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

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

Prompt Design in Vertex AI Skill Badge by **Google**