

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, 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, Pydantic, 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

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 merge 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**

Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate