MANOJ J S

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PROFESSIONAL SUMMARY

Final-year Computer Science Engineering student with strong foundations in data structures, algorithms, and software engineering principles. Experienced in building RESTful APIs, designing modular backend systems, and integrating LLMs into production-style applications. Seeking Software Engineer (General) roles in product-driven organizations.

EDUCATION

Bachelor of Engineering – Computer Science Engineering

The National Institute of Engineering, Mysuru | CGPA: 8.6 / 10 | Expected May 2026

Class XII – Sri Ramakrishna Vidyashala, Mysuru | Score: 92%

Class X – Sri Ramakrishna Vidyashala, Mysuru | Score: 95%

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C
Backend: FastAPI, RESTful APIs
Databases: SQL
AI Exposure: LLM Integration, Prompt Engineering, Groq (LLAMA-3, Whisper), Ollama
Frontend: HTML, CSS, JavaScript
Tools: Streamlit, Git, GitHub, yt-dlp

PROJECTS

AI Travel Itinerary Generator | Python, FastAPI, LLM APIs

Tech Stack: Python (Fast API), HTML, CSS, JavaScript, OpenAI/Ollama APIs.

- Developed a web-based AI-powered application that generates personalized travel itineraries based on destination, budget, interests, and travel style.
- Implemented backend integration with LLMs (OpenAI/Ollama APIs) using prompt templates for structured, consistent itinerary generation.
- Designed a responsive, user-friendly frontend with HTML/CSS/JavaScript and dynamic rendering via Jinja2.

Video Transcript Summarizer | Python, Streamlit, Groq APIs

Tech Stack: Python, Streamlit, Groq Whisper API, Groq LLAMA 3 API, youtube-transcript-api

- Developed a Streamlit application that processes YouTube URLs to provide a concise summary of video content.
- Implemented a robust, multi-stage extraction pipeline: first attempting a direct transcript fetch, and then using yt-dlp and the high-speed Groq Whisper API as a fallback for audio transcription
- Implemented Leveraged Groq LLAMA 3 via API for rapid LLM summarization of the extracted transcript, demonstrating expertise in AI tool chaining and efficient API integration.

ACHIEVEMENTS & ACTIVITIES

- Best Project Award for AI Travel Itinerary Generator, recognized as the top project in class.
- Participant, Bharatiya Antariksh Hackathon 2025 (ISRO-affiliated).
- Represented school and VTU in Kho-Kho tournaments, demonstrating teamwork and discipline.