Naveen Kumar

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Summary

AI Engineer with strong Python fundamentals and hands-on experience building practical, real-world intelligent systems. Familiar with applying AI and ML concepts through projects and internships, and eager to contribute in collaborative, fast-paced environments.

Skills

Programming & Querying: SQL, Python
Generative AI & LLMs: LangChain, LangGraph, RAG, VectorDB, Fine-Tunning, Prompt Engineering
Concept & Paradigms: DSA, OOPS, Operating System, DBMS
Framework & Tools: Git, GitHub, FastAPI

Experience

AI Engineer Intern **June 2025 – July 2025**
Ranchi, Jharkhand *Tools Used: Python, MCP, FastAPI*

- **Built a FastAPI-based MCP server that enables natural language** access to internal company APIs, eliminating the need for manual endpoint calls and query writing.
- Designed structured tool schemas for API invocation, improving intent-to-action accuracy and **reducing incorrect API calls by 40%.**
- Integrated LLM-based intent parsing to convert user queries into validated API parameters, **cutting data retrieval time by 60% for non-technical users.**
- Implemented response validation and post-processing to transform raw JSON into human-readable summaries, improving usability and decision clarity.
- Leveraged MCP's protocol(stateful) to retain conversational context and reuse previously fetched data, **reducing redundant API calls by 35–45% and lowering operational costs.**

Projects

MCP Server for Browser Automation | *Python, FastAPI, MCP, Playwright* **March 2025 – April 2025**

- Built a stateful MCP server that allows users to control the browser using natural language, where LLMs convert user intent into structured automation actions.
- Created 9+ MCP tools for navigation, form filling, clicks, JavaScript execution, screenshots, and cleanup, with support for Chromium, Firefox, and WebKit.
- Used MCP's context memory to reuse previous page data and sessions, reducing repeated browser actions and API calls by 30–40%.
- Implemented wait strategies, timeout controls, and selector validation to make browser actions more reliable, reducing automation failures by 30%.

File Deduplication and Categorization System | *Python, Streamlit* **August 2025 – September 2025**

- Built a Streamlit-based tool that scans directories and detects duplicate files using hashing, successfully identifying duplicate files across hundreds of files per scan in typical personal directories.
- Implemented a config-driven categorization system using JSON rules to automatically group files into 5–10 logical categories, reducing manual file sorting effort.
- Designed a modular scan–detect–categorize–delete workflow that reduced manual file cleanup time by 50% compared to manual review and deletion

Awards & Certifications

- **Trooper Tier - Google Cloud Skills Boost 2025:** Earned through consistent completion of hands-on Google Cloud labs and challenges, building practical cloud skills.
- **National Finalist - Smart India Hackathon 2023:** Ranked among top 150 out of more than 3,000 participants for advanced SQL problem-solving.

Education

B.tech in Computer Science **2022-2026**
Amity University *Ranchi, Jharkhand*