Karthik Nair

Software/Data/FLOSS Enthusiast | AI Engineer

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Developer with a passion for open-source and building impactful solutions. Skilled in Data Analytics, backend systems, and cloud. Known for adaptability, teamwork, and active hackathon participation during college.

EDUCATION

Indira Gandhi National Open University | **Master of Computer Applications** (Ongoing) | 2025–2027

VIPS, Guru Gobind Singh Indraprastha University New Delhi | **Bachelor of Computer Applications** (Data Science & Analytics) – 9.1 CGPA | 2021–2024

WORK EXPERIENCE

Tata Consultancy Services, Noida – AI Engineer | Aug 2023–Present

- Building AI systems for a US-based pharma client to automate document processing, data analysis, and graph generation using fine-tuned LLMs, FastAPI, LangChain, internal tools and cloud platforms. **It Reduced dataset analysis time by 90%, accelerating insights and drug discovery.**
- **Tech**: Python | FastAPI | LangChain | Generative AI | Data Analytics | AWS | Azure

PERSONAL and ACADEMIC PROJECTS

- **EPP-systemd** – (Jul 2024–Present) : A customizable systemd service that automatically adjusts CPU energy performance preferences and display settings based on battery status and capacity.
- **SeniorSage** – (Jan 2024–Present) : AI platform offering resume reviews, GitHub analysis, and roadmap suggestions for CS students.
- **Food-for-All** – (Aug 2023–Dec 2024) : A python-based app that connects restaurants and NGOs to combat the wastage of excessive food with a real-time database.

SKILLS

- **Technical**: Backend (FastAPI, Flask), Cloud (Azure, GCP), Python, C++, Bash, MySQL, Firestore, Git, Linux, Systemd, HTML, CSS, Web Scraping, Gen AI, Prompt Engineering, NLP, Shell Scripting, Platforms (Firebase, Vercel, Render)
- **Non-Technical**: Content Writing, Video Editing (Davinci Resolve), Photography, Digital Marketing

AWARDS

- [Bug Bounty Cash Award from Google Buganizer @ Android 12/13](#) | 2021

LANGUAGES

- Professional Proficiency : English, Hindi
- Native/Bilingual Proficiency : Malayalam
- Limited Working Proficiency : Tamil