Manish Poudel

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LinkedIn | Github

PROFILE

Software engineer experienced in developing and managing mobile and web apps with background on AI/ML seeking an impactful career in IT.

TECHNICAL SKILLS

AI & Machine Learning: LangChain, LangGraph, Hugging Face, Pandas, NumPy, Neural Network
AI Systems & Integrations: MCP, Agentic AI, OAuth 2.0, human-in-the-loop workflows
Languages & Frameworks: Python, FastAPI, Next.js, Node.js, Flutter, Kotlin, Java, Jetpack Compose
Databases & Cloud: PostgreSQL, AWS, GCP, Alembic, Docker, Firebase Cloud Messaging
Tools & Engineering Practices: GitHub, Jira, Notion, TestFlight, Codemagic, Bugsnag, Claude, GitHub Copilot
Strength: Quick learner, punctual and a good team player

EDUCATION

Islington College- Bachelor in Computing
Certifications: Neural Network and Deep Learning, Machine Learning, Introduction to Calculus

PROFESSIONAL EXPERIENCE

Software Engineer / Co-founder — Hexlipi Solutions Pvt. Ltd. (*2019 – Present)*

MyndBase — AI-powered Company Brain [Architecture] [Website]

- Built a full-stack platform to connect company knowledge and tools with graph-based workflows for context-aware AI automation.
- **Frontend:** Built a React/Next.js UI with a visual workflow editor using React Flow, structured with repository/service layers, and integrated with Amazon Cognito to manage user authentication.
- **AI Engine:** Built *Hex Agents*, a standalone Python package using LangGraph that compiles visual graphs into executable agent workflows with human-in-the-loop approvals, triggers and cron scheduling.
- **Backend & Cloud:** Developed a versioned FastAPI backend with PostgreSQL (with Alembic data migration tool), containerized with Docker, and deployed on AWS.
- **Business AI Integration:** Connected cafe sales data via OAuth 2.0 and a custom Model Context Protocol (MCP) server for secure AI data extraction, automated sales analysis, and email reporting via Resend.

Talk My Doc [Documentation]

- Co-founded and built a Flutter telemedicine app supporting appointments, payments via e-Sewa, and real-time audio/video communication using Agora.

Software Engineer - Truenary Solutions (*Jan 2023 - Feb 2024)*

- Built and tested new features, along with refactoring old Flutter codes using Bloc state management, improving app performance.
- Participated in feature planning and discussions using Jira and Notions.
- Implemented CI/CD workflows using GitHub Actions and TestFlight to streamline build and testing processes.

OTHER PROJECTS

- **Imagly — AI Dictionary App:** Implemented camera-based OCR to extract text and generate word lists for quick meaning lookup, reducing the need for manual text entry. [Demo video]
- **TravelMotto**: Contributed to a travel-gamification mobile app designed to make exploring new places more interactive. [Google Play]
- **Algorithmic Trading System:** Developed Python scripts combining technical indicators, sentiment analysis, and broker/market-data APIs to generate trading signals and automate trade execution. [Documentation]