

PRASHANT MAHTO

AI Engineer | Software Developer

☎ +353899849159 ✉ prashantmahto111@gmail.com 🔗 LinkedIn 🐙 GitHub 📍 Athlone, Ireland

PROFESSIONAL SUMMARY

AI Engineer completing MSc in software design with AI, with hands-on experience in building AI Agents, Multi-Agent Workflows, RAG pipelines and LLM-based software. A strong communicator with a proactive problem-solving approach, eager to contribute to the field of Artificial Intelligence.

WORK EXPERIENCES

Software Developer Intern | Internship

Jul 2024 - Jul 2024

Skill Craft Technology

Remote • Pune, India

- Created multiple projects in **Java** and **Python**.
- Gained valuable skills in **developing native GUI** applications in Java, **web scraping** using Python, as well as time management and logical thinking.

Technologies / Skills Used : Java, Python

EDUCATIONS

Technological University of Shannon - Athlone | Ireland

Sep 2025 - Oct 2026

MSc in Software Design with AI

MIT Arts Design and Technology University | Pune, India

Jul 2022 - Apr 2025

Bachelors in Computer Applications - Applied Data Science

PROJECTS

Multi-Agent AI Blogging Studio using LangGraph and Local LLMs | 🐙 Github

Developer

- Built a **multi-agent orchestration** workflow in **LangGraph** that researches, validates, writes, edits, and publishes blog posts, running entirely on local models via **Ollama** at zero inference cost, with tool access isolated behind MCP servers and a PostgreSQL checkpointing that pauses execution for human approval before anything goes live.
- Developed a **LangSmith evaluation harness** over a 20-example dataset and four LLM-as-a-judge evaluators, achieving retrieval accuracy of **0.81**, faithfulness of **0.94**, relevance of **1.00**, and injection resistance of **0.88**.
- Decoupled all prompts into versioned YAML published to the **LangSmith Prompt Hub** for measurable A/B iteration, and hardened the pipeline against production failures diagnosed from traces and event-loops backed by **79 hermetic tests** in GitHub Actions CI and a Docker deployment.

Technologies / Tools Used : Python, Gradio, LangGraph, LangSmith, Ollama

Automated Dark Patterns Detector | 🐙 Github

Developer

- Built a web tool that navigates cookie-consent flows in a real browser, detects 14 deceptive design patterns, maps each to GDPR articles using **Azure AI Content Understanding**, **Azure AI Foundry** and stores screenshots, reports, and scan progress to **Azure Blob Storage**.
- Measured colour contrast, button size, and pre-ticked boxes directly on live pages, ensuring findings quote real values; limited audits to decision screens, keeping scans near 28,000 tokens.
- Scored findings with **Azure AI Foundry** evaluators, averaged three runs to expose inconsistent scoring, and covered the system with **95 automated tests**.

Technologies / Tools Used : Python, FastAPI, React, Playwright, Azure AI Services, Azure Foundry, Azure Blob Storage

AI Dev Logger | And Automated Code Documentation Tool | 🐙 Github

Developer

- Built a GitHub webhook platform that converts commit history into summaries, PR descriptions, code reviews, decision records, and operating procedures, exportable as PDF/Markdown, shareable to Slack.
- Reduced costs by routing jobs to the cheapest suitable model, running embeddings locally on **Ollama**, using paid models only for user-facing tasks, and securing the platform with verified webhooks, encrypted credentials, collaborator-based access.
- Built a **50-commit evaluation suite** that raised prompt compliance from **60% to 100%**; compared a fine-tuned Qwen2.5-Coder-7B model with its base model, shipped the stronger base model, and published the negative result.

Technologies / Tools Used : Java, Spring Boot, React, PostgreSQL, Ollama, Supabase, Docker

SKILLS

Programming Languages :

Python, Java, TypeScript

Frameworks & Libraries :

FastAPI, Spring Boot, LangGraph, LangChain, REST API, React

Tools & Platforms :

Supabase, Azure AI services, GitHub, Docker, CI/CD, Lang Smith

Databases :

PostgreSQL- pgvector

CERTIFICATIONS

- Microsoft Certified: Azure AI Apps and Agents Developer Associate | July 2026
- IBM RAG and Agentic AI Professional | August 2026
- IBM DevOps, Cloud and Agile Foundations | August 2026