

# DEVENDRA CHAUDHARI

Adelaide, South Australia | +61 481 783 399 | [devachaudhari22@gmail.com](mailto:devachaudhari22@gmail.com)  
[linkedin.com/in/devendra-chaudhari](https://linkedin.com/in/devendra-chaudhari) | [github.com/DevaChaudhari](https://github.com/DevaChaudhari) | [Portfolio](#)

Work rights: Student visa (subclass 500), up to 48 hours per fortnight during semester and unlimited hours during university breaks

## PROFESSIONAL SUMMARY

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AI Engineer with 2+ years building and shipping generative AI, agentic AI and RAG systems to production. Hands on expertise in LangChain, LangGraph, Model Context Protocol (MCP), Agent to Agent (A2A), FastAPI, Docker, Kubernetes, Microsoft Azure and Google Cloud Run. Master of Data Science (AI specialisation) student at Flinders University and published researcher, with a track record of taking autonomous agent platforms from prototype to cloud deployment. Microsoft certified Azure AI Engineer.

## TECHNICAL SKILLS

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**Agentic AI:** LangGraph, LangChain, LangSmith, Model Context Protocol (MCP), Agent to Agent (A2A), tool calling, agent orchestration, prompt engineering, agent evaluation

**LLMs and RAG:** RAG pipelines, embeddings, vector search, FAISS, ChromaDB, Pinecone, Hugging Face, Azure OpenAI, Google Gemini, Groq, Ollama, fine tuning

**Machine Learning:** Python, PyTorch, TensorFlow, scikit learn, computer vision, NLP, OpenCV, feature engineering, model evaluation

**Backend, Data and Cloud:** SQL, C#, FastAPI, Flask, REST APIs, Pandas, NumPy, SQL Server, MySQL, Microsoft Azure, Azure DevOps, Google Cloud Run, Docker, Kubernetes, GitHub Actions, CI/CD

## PROFESSIONAL EXPERIENCE

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### AI Engineer | Jul 2024 to Jun 2026

*Freelance, Remote*

- Developed and deployed generative AI applications including RAG chatbots, autonomous agent systems and AI powered automation using LangChain, LangGraph, FastAPI and Python, reducing average client workflow time by about 35%.
- Engineered agent workflows with Model Context Protocol (MCP) and Agent to Agent (A2A) communication, cutting cross agent integration time by about 50% compared with custom REST approaches.
- Built scalable AI platforms integrating vector databases, embeddings, semantic search and web tools for real time retrieval and task execution across 4+ client deployments.
- Designed production ready backend services and REST APIs with under 200ms median response latency.
- Deployed and monitored AI solutions using Docker, Microsoft Azure, GitHub and LangSmith, reducing debugging and observability overhead by about 40% through structured tracing.

### Associate Engineer | Dec 2024 to Mar 2025

*L&T Technology Services, India (concurrent with freelance role)*

- Engineered enterprise cloud applications on Microsoft Azure including Virtual Machines, App Services, Azure SQL Database and Azure AI services.
- Architected a Data Access Layer with Entity Framework Core, reducing backend data retrieval time by about 30% across 3+ modules.
- Optimised SQL Server performance through stored procedures, complex queries and indexed schemas, cutting average query time by about 45%.
- Implemented CI/CD pipelines in Azure DevOps, saving about 4 hours of manual deployment effort per release.

### Machine Learning Intern | Feb 2023 to Mar 2023

*E Cell IIT Hyderabad, India*

- Built and evaluated machine learning models in Python, TensorFlow and scikit learn to predict seasonal flu vaccine uptake, achieving ROC AUC of 0.84.
- Benchmarked Logistic Regression, Random Forest and ensemble methods with cross validation and hyperparameter tuning, improving F1 by about 12% on imbalanced data.

## PROJECTS

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### **AustraliaJobSeeker AI: End to End AI Agent Job Platform | Mar 2026 to Jun 2026**

*Python, LangGraph, LangSmith, Groq, FastAPI, MCP, A2A, Docker, Kubernetes, Google Cloud Run, CI/CD*

[GitHub Repository](#)

- Production agent system that scrapes live job listings and filters them by visa type (500, 485, 482, PR) in real time.
- LangGraph pipeline covering job scraping, enrichment, visa eligibility checking, resume match ranking and AI generated resumes and cover letters.
- Custom MCP servers exposing job search, visa check, resume tailoring and cover letter generation as callable tools, plus A2A servers for agent collaboration.
- Deployed on Google Cloud Run with Docker, Kubernetes manifests and Cloud Build CI/CD; LangSmith tracing for every agent decision.

### **ProjectPilot AI: Autonomous Agent System | Mar 2026**

*Python, LangGraph, LangChain, FastAPI, Streamlit, Ollama*

[Live App](#) | [GitHub Repository](#)

- Planner, executor and tool selection agents orchestrated in LangGraph across 5+ tool agents and 6+ external APIs, improving orchestration efficiency by about 40%.
- Local LLM inference with Ollama to remove cloud API cost; FastAPI backend with a Streamlit frontend for live task monitoring.

### **YouTube RAG Chatbot | Jan 2026**

*Python, LangChain, Gemini, FAISS, Streamlit, Docker, Kubernetes*

[Live App](#) | [GitHub Repository](#)

- Four stage RAG pipeline with Gemini embeddings and FAISS, giving under 500ms semantic search across 100K+ token transcripts.

## **EDUCATION**

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### **Master of Data Science (Artificial Intelligence specialisation) | Expected Dec 2027**

*Flinders University, Adelaide, Australia*

### **Bachelor of Engineering in Computer Science, CGPA 9.13 out of 10 | Feb 2021 to Jun 2024**

*Savitribai Phule Pune University, India*

## **CERTIFICATIONS**

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Microsoft Certified: Azure AI Engineer Associate (AI 102), Aug 2025 | Microsoft Certified: Azure AI Fundamentals (AI 900), Aug 2025 | Machine Learning with Python, E Cell IIT Hyderabad, Mar 2023

## **RESEARCH PUBLICATIONS**

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Book chapter: A Real Time Vehicle Counting System for Detecting Traffic Surveillance, Advancing Engineering and Technology through Interdisciplinary Approaches, Cambridge Scholars Publishing, 2026. Conference paper: ICATIA 24, International Conference on Advanced Technologies and Intelligent Automation, May 2024.