Sajal Sharma

+65 9077-9093 | contact@sajalsharma.com | linkedin.com/in/sajals | github.com/sajal2692

PROFESSIONAL SUMMARY

AI Engineer with 8+ years specializing in Applied AI, NLP, and Deep Learning. Proven track record of leading teams, building AI-first products across Asia, and teaching cutting-edge AI concepts as O'Reilly instructor and Yale guest lecturer. Deep expertise in LLMs, RAG systems, AI agents, and scalable Generative AI solutions.

EXPERIENCE

AI Engineer — Jun 2024 – Present
Liminal (formerly Menyala, a Temasek-backed Venture Studio) — *Singapore*

- Spearheading AI innovation across Liminal's venture portfolio, architecting multi-agent systems including VC copilot for automated investment analysis and Matrix, an agentic search platform enabling AI agents to query and retrieve information across multiple data sources.
- Leading engineering team of 4 for Lana, developing an AI-based underwriting platform. Architecting end-to-end solution with Typescript/Next.js frontend, Python/FastAPI backend, LangGraph multi-agent workflows, automated data processing pipelines, task processing using Celery & Redis, Supabase & AWS integratio.

Lead AI Engineer — Jan 2023 – Jun 2024
OneByZero — *Singapore*

- Led team of 6 engineers developing production-grade AI solutions using LLMs, RAG, vector databases, and agent-based systems, delivering enterprise implementations including banking chatbot and social media AI agent handling 3000+ posts for major Filipino companies.
- For Splore, a Temasek backed AI startup, led development of end-to-end search infrastructure combining semantic search, Langchain-powered Q&A systems, and ranking function optimization, reducing incorrect responses by 50%, tripling engagement, and improving MAP from 0.3 to 0.8.

Senior Machine Learning Engineer — Aug 2017 – Dec 2022
Unscrambl — *India*

- Developed NLP capabilities for proprietary business analytics product including NER, text classification, and NL to SQL systems using NLTK, spaCy, and transformers, while building automated training data generation pipelines.
- Led design & deployment of chatbot solutions for clients across Asia, impacting over 100,000 monthly users using Microsoft Bot Framework and Azure AI Services for NLU and dialog management.

EDUCATION

The University of Melbourne — Melbourne, Australia
Master of Information Technology, Major in Computing — *Aug 2014 – Aug 2016*

Bharatiya Vidyapeeth University — New Delhi, India
Bachelor of Computer Applications — *Jul 2010 – Jul 2013*

TECHNICAL SKILLS

Applied AI: RAG, Multi-Agent Systems, AI Agents, Vector Databases, Langchain, Prompt Engineering, MCP
Machine Learning: PyTorch, Huggingface, Sentence Transformers, BERT, SpaCy, NLTK
Infrastructure & Tools: AWS, GCP, Docker, Terraform, Git, Opensearch/Pinecone, PostgreSQL, Redis, Celery

ACTIVITIES & RECOGNITION

- **Instructor, O'Reilly (2025 - Present)**: Created "Building AI Agents with LangGraph", a 3-hour video course on developing AI agents with Python, OpenAI, and LangGraph, covering multi-agent architectures and essential design patterns. Also teaching "Agentic RAG with LangGraph", a live course focused on building agentic RAG systems.
- **Guest Lecturer, Yale University (2025)**: Delivered guest lecture on "Building Agentic Systems with LangGraph" in MGT 899: Generative AI & Entrepreneurship.
- **Mentor & Project Reviewer, Udacity (2017 - 2023)**: Coached 100+ international students, recognized as elite mentor in 2021 with A+ performance grade. Reviewed 1,000+ projects across Data Science courses.
- **Mentor, STEM Industry Mentoring Programme, University of Melbourne (2020 - 2023)**: Mentored students in technology careers and academic development.
- **Creator, Data Science Portfolio**: GitHub repository with 1,000+ stars showcasing various Data Science projects.