

# Sajal Sharma

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## 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.