

Yashika Jain

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EDUCATION

University of Toronto <i>Honors Bachelor of Science in Computer Science & Statistics</i> Relevant Courses: Machine Learning, Artificial Intelligence, Data Structures & Algorithms, Discrete Mathematics	Toronto, CA Sept. 2023 - April 2027
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EXPERIENCE

Lead Agentic AI Engineer <i>Vegas Consulting</i>	April 2025 – Present Dubai, UAE
<ul style="list-style-type: none">Led end-to-end AI architecture for a SaaS onboarding assistant enabling real-time search across 10,000+ manufacturing documents.Designed and evaluated a hybrid retrieval architecture combining vector databases (ChromaDB, Pinecone) and a Neo4j knowledge graph to support agentic reasoning within a multi-agent RAG system.Developed the full-stack product (FastAPI/Flask + React) with Stripe billing, achieving sub-500 ms response times through vector search and prompt optimizationContainerized and deployed services on GKE using Docker and Cloud Build CI/CD, reducing pilot infrastructure costs by 40% while supporting scalable, production-grade workloads.Integrated AI workflows with enterprise ERP systems via REST APIs & led testing to ensure production readiness.	
Undergraduate AI Researcher – CS Education <i>University of Toronto</i>	Sept 2025 – Dec 2025 Toronto, ON
<ul style="list-style-type: none">Implemented and evaluated AI-driven metacognitive scaffolding techniques within a program-visualization system to improve debugging and self-explanation in introductory CS.Designed and implemented an adaptive AI-driven hint-generation system by extending execution-trace and event-model architectures to deliver context-aware guidance.Prototyped and evaluated LLM-based tutoring components, experimenting with retrieval-augmented prompting and error-pattern detection to improve feedback quality.Applied HCI and cognitive load principles to redesign learning workflows and student-facing interactions, informing system-level improvements.	
Blockchain Software Intern <i>Collabera Inc.</i>	May 2022 – Jul 2022 Toronto, ON
<ul style="list-style-type: none">Built and deployed blockchain-backed services using AWS, Docker, and Go in a Linux environment.Proposed and prototyped Blockchain + IoT use cases integrated with cloud services.Co-designed the MVP for a Revenue Cycle Management system on AWS Blockchain.Delivered a production-ready blockchain module used for payer-provider interactions.	

PROJECTS

MeetingMind – AI-Based Service <i>Python, GCP, Vertex AI, React</i>	
<ul style="list-style-type: none">Developed a GCP-based system that converts meeting audio into structured summaries and action items using Vertex AI-powered speech and NLP pipelines.Built a vector-based semantic Q&A system using OpenAI, LangChain, and FAISS over meeting transcripts.Designed end-to-end ingestion and indexing workflows enabling low-latency retrieval over long-form audio transcripts.	
AI EduGuide BOT <i>Python, Streamlit, Flask, FAISS, LangChain</i>	
<ul style="list-style-type: none">Developed an AI chatbot for academic queries using retrieval-augmented generation with FAISS and custom prompt logic.Implemented custom prompt logic and conversational flows to support context-aware multi-turn reasoning.	

TECHNICAL SKILLS

Languages: Python, Java, C/C++, SQL, JavaScript, R
Frameworks: React, Node.js, Flask, LangChain, PyTorch, FastAPI, TensorFlow
Developer Tools: Git, Docker, Google Cloud Platform, Visual Studio, PyCharm, IntelliJ, ChromaDB, FAISS