VANSH BHATT

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Vancouver, BC, Canada
Canadian Citizen (Open to Relocation)

TECHNICAL SKILLS

Technologies: Python, Agentic RAG, LangChain, PyTorch, TensorFlow, Flask, Angular, ASP.NET Core, Node.js, MATLAB, Java, C/C++, HTML/CSS, JavaScript, SSMS, Flutter, FastAPI, MySQL, Scikit-learn, Pandas, NumPy, OpenCV

Developer Tools: Jupyter NB, VS Code, VS 2022, Git/Github, Neovim, Figma, Postman, ChromaDb

OS: Linux Ubuntu, MacOS X, Windows

WORKING EXPERIENCE

MultiQos Technologies

AI/ML Developer (CO-OP/Internship)   **April 2025 - Present**

- Led end-to-end development of advanced Agentic RAG systems tailored to diverse enterprise use-cases, overseeing the full lifecycle from client consultation and requirements analysis to deployment and delivery.

- Designed and deployed AI-powered chatbots, including a smart Personal Finance assistant, an HR automation platform, and a voice-activated Meeting Scheduler bot leveraging speech-to-text (STT), text-to-speech (TTS), and LLM integration for hands-free scheduling.

- Engineered real-time computer vision solutions using OpenCV, incorporating motion detection and analytics into client-facing applications. Regularly presented prototypes and solutions to clients, product managers, and executives, serving as a core contributor to the AI/ML division.

Ascendion Engineering

AI Application Intern (CO-OP/Internship)   **May 2024 - September 2024**

- Developed and integrated AI chat models using OpenAI technologies and RAG workflow, focusing on creating and storing embeddings in vector databases and building APIs with Flask and Postman for efficient data retrieval.

- Led the development of a custom geobot, a personalized AI that answers questions about global locations, integrated into a web application with a frontend built using Angular and Node.js.

- Contributed to the full-stack development of a web application from scratch using ASP.NET Core SDK 8, implementing business and administrative layers, data access with Dapper, and database management with SQL Management Studio.

TECHNICAL PROJECTS   Many More at: **https://github.com/Vansh-837**

AI-Powered Voice Meeting Scheduler   **June 2025**

- Built end-to-end voice-activated scheduling system integrating STT/TTS APIs with LLM-powered natural language understanding, enabling hands-free calendar management with 90%+ intent recognition accuracy.
- Deployed scalable chatbot architecture using FastAPI and implemented real-time speech processing pipeline for seamless user interactions.
- Integrated intelligent web scraping capabilities for calendar context extraction and automated meeting summarization from URLs and documents.

Enterprise AI Chatbot Solutions (Personal Finance & HR Automation)   **May 2025**

- Architected and deployed production-ready AI chatbots using LangChain and ChromaDB, including a Personal Finance assistant with 95%+ intent recognition accuracy and an HR automation platform handling employee queries and policy management.
- Implemented advanced Agentic RAG systems with hybrid search, re-ranking, and contextual filtering to optimize response quality across financial planning, benefits administration, and compliance workflows.
- Developed LLM-powered web scrapers and document summarizers for automated content extraction and intelligent summarization of financial reports and HR documentation.

XRAY Classifier (ML)   **March 2025**

- Developed an X-ray classification model using CNN architectures (ResNet, VGG) to detect normal, TB, and COVID pneumonia cases with high accuracy.
- Implemented advanced data cleaning techniques, including noise reduction, image augmentation, and class balancing, to enhance model performance.
- Trained and fine-tuned deep learning models using TensorFlow/PyTorch for improved classification accuracy.

EDUCATION

Bachelor of Science in Computer Science   **Fall 2022 - Fall 2026 (expected)**
Simon Fraser University Vancouver, British Columbia (CGPA: 3.92)
Multiple Dean's and President's Honour Roll Mentions, Open Undergraduate Scholarship Recipient, SFU CSSS UG Award ($3000)