

Poorvi Bhatia

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AI/ML and full-stack developer with hands-on experience in research, data-driven projects, and software development.

TECHNICAL SKILLS

Languages & Frameworks: Python, C/C++, Java, JavaScript/TypeScript, React, ExpressJS, Flask

Data Tools: PostgreSQL, MongoDB, Firebase, ChromaDB, Spark, pandas, Sklearn

AI/ML: PyTorch, Hugging Face, Whisper, LangChain, OpenAI, RAG

Tools: Git, Docker, Figma, REST APIs, GDB, Make/CMake, Linux, Matlab

EXPERIENCE

Undergrad HCI Research Assistant

May. 2025 – Aug 2025

ixLab, SFU

Burnaby, BC

- Analyzed 2K+ Reddit posts with PRAW; classified using LLMs, BERT, SVM+TF-IDF, and regex for time-series analysis
- Generated clear process visualizations and plots using Figma to communicate insights effectively
- Processed and analyzed large-scale user study data, identifying patterns and actionable insights
- Co-authoring 2 papers for CHI 2026 based on experimental findings and user study analysis

Campus Connect AI: Chatbot for International Students

Mar. 2025 – May 2025

RBC Borealis Let's Solve It

Vancouver, BC

- Built a RAG-based chatbot to help 10k+ SFU international students access local info [link]
- Curated a 200+ document knowledge base; used category-wise prompting to speed retrieval 35% and boost relevance 20%.
- Evaluated 5+ LLMs and embeddings; deployed a quantized model achieving 40% faster inference

Undergrad AI Research Assistant

Nov. 2024 – Jan. 2025

Rosie Lab, SFU

Burnaby, BC

- Benchmarked ASR models from OpenAI and Nvidia on untrained audio types (3K+ audio files); evaluated performance gaps and model robustness
- Contributing author on publication about ASR validation pipeline [link], released open-source dataset on Hugging Face [link]

PORTFOLIO

RainbowMate: Inclusive Health Tracker

Mar. 2025

UBC cmd-f hackathon

Vancouver, BC

- Built a full-stack React Native app designed to support LGBTQ+ users with medication tracking and mental health resources
- Developed a RAG chatbot, enabling emotionally supportive and context-aware conversations
- Contributed to back-end MongoDB integration; delivered an accessible, inclusive MVP within 24 hours

ABCD Can You Detect Me?

Feb. 2025 - Apr. 2025

SFU Biomedical Computing

Burnaby, BC

- Developed machine learning models (CNN, SVM, ANN, etc.) on the HAM10000 dataset to classify melanoma and non-melanoma skin lesions
- Applied image processing and ABCD feature extraction to improve early skin cancer detection accuracy
- Integrated healthcare-focused AI workflows, combining model development, evaluation, and reproducible software pipelines

Additional projects and experiences available at poorvi.tech

EDUCATION

Simon Fraser University

Sep. 2022 - Jun. 2027 (Expected)

B.Sc in Computing Science

Burnaby, BC

President's & Dean's Honour Roll, Undergraduate Open Scholarship x 3, NSERC Undergraduate Student Research Award

LEADERSHIP & COMMUNITY

SFU Computing Science **Peer Tutor** · **Communications Coordinator**, Women in Computing Science (WiCS)

Try/Catch 2025 · **Graphics and Media Coordinator**, SFU Student Energy