

# Maryam Pour



(403) 401-6025



[vmvahdatpour@gmail.com](mailto:vmvahdatpour@gmail.com)



Calgary, Alberta, Canada

## Experience

### Senior Machine Learning Engineer

**XGenAI** – Sep 2022 - present – *Remote*

- Designed and deployed a **GenAI multi-agent chatbot** for fashion recommendation using an agentic architecture. Integrated **RAG** for dynamic knowledge retrieval and Langfuse for observability. Mapped agent workflows and engineered prompts across Claude and OpenAI models for task-specific interactions. Built **CI/CD pipelines** for automated testing, deployment, and iteration, improving system reliability and reducing latency in user response times.
- Developed a **semantic search engine** using domain-adapted CLIP, fine-tuned on fashion **image-text pairs** via contrastive learning to enhance cross-modal embedding alignment. Enabled a 25% increase in conversion rates across clients, including **Coach, Marc Jacobs, Valentino, and Armani**.
- Built and deployed a Complete-the-Look service combining **instance segmentation, multi-modal retrieval, and vision tagging**. Trained a model to segment lifestyle images into fashion items, CLIP to tag segmented regions by category, and **Google Vision AI** for image-based matching. Enabled precise product retrieval and outfit recommendation, driving measurable revenue lift for fashion clients.

### Data/Machine Learning Engineer

**LocalIntel**, – Sep 2020 - Sep 2022 – *Calgary, Canada*

- Architected and optimized **ETL data pipelines** feeding multiple analytics applications, resulting in a 30% improvement in data processing efficiency and a 25% reduction in latency.
- Built custom NLP and Computer Vision platforms to automate insights and UI validation: leveraged GPT-3 to generate **natural language summaries** for client dashboards, boosting user engagement by 40%, and developed a TensorFlow-based **image similarity system** for automated screenshot testing, cutting QA time by 50% and improving UI consistency.

### Machine Learning Engineer Intern

**AltaML**, – Jan 2021 - Mar 2021 – *Calgary, Canada*

- Extracted data modules using data mining techniques, enhancing **network diagram** accuracy by 25% and reducing processing time by 40%.
- Developed a ML module similarity technique with **Graph Neural Networks** to optimize rule application, improving consistency by 35%.

### Machine Learning Engineer Intern

**HEIG-VD**, – Feb 2018 - Jun 2018 – *Lausanne, Switzerland*

- Developed an **NLP-based chatbot** to analyze real-time user data and provide personalized skincare solutions, using KNN and Word2Vec to identify clusters and grouping the responses given a question.

## Education

- Master of Science in Computer Engineering** – **University of Calgary** – Aug 2018-Sep 2020
- Bachelor of Science in Computer Science** – **University of Tehran** – Aug 2013-Sep 2017

Python (+8y) TensorFlow, PyTorch	Pandas, OpenCV, HuggingFace	LangChain, LlamaIndex, GPT, Claude, Llama3	DynamoDB, PostgreSQL, Neo4j	AWS, GCP, ElasticSearch, Airflow	Git, Docker, GitHub Actions, Jenkins, GitLab	CI/CD, Flask App, FastAPI, Power-BI
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[linkedin.com/in/maryam-vahdat-pour](https://linkedin.com/in/maryam-vahdat-pour)



[github.com/marpour](https://github.com/marpour)