

BIJAN ROUDINI

MACHINE LEARNING ENGINEER

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St. John's, NL, Canada (WILLING TO RELOCATE)

LinkedIn

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github.com/BijanProjects



bijanprojects.github.io

EXPERIENCE

Oct 2024 – Feb 2025

Nasdaq Verafin – St. John's, NL, Canada

Data Science Internship (NLP\LLM) – MITACS Program

- Prompt engineering and fine-tuning of open-source LLMs to extract meaningful descriptions from tabular FinTech data.
- Fine-tuned Llama 3.1 8B model utilizing the IBM-FinQA dataset and enhanced the RougeL metric from an f-measure of 0.4 to 0.8.

Jan 2023 – Dec 2024

The Memorial University of Newfoundland – St. John's, NL, Canada

Teaching Assistant

- Advanced computer concepts – Prof: Dr. Reza Shahidi
- Computer security – Prof: Dr. Jonathan Anderson

Jun 2021 – Sep 2021

École de Technologie Supérieure - ÉTS Montréal – Montreal, QC, Canada

Summer Internship

- Train, develop, and test the machine learning models with data related to human physiology.

SKILLS

Data Science, Machine Learning, Data Processing, Data Analytics

- **Programming Languages:** Python, MATLAB, C, C++
- **Machine Learning Frameworks:** Pytorch, Keras, Tensorflow, Sickit-learn
- **Python Libraries:** Open-CV, Pandas, Numpy, Scipy, Matplotlib, Seaborn
- **Cloud Computing Experience:** Compute Canada, Amazon Web Services (AWS)
- **Developer Tools & Databases:** Git, Docker, Bash Script, SQL, FastAPI

EDUCATION

Sep 2022 – April 2025

Master of Computer Engineering (Thesis-based)

The Memorial University of Newfoundland

Thesis: Deep learning on motor imagery brain-computer interface

Supervisor: Dr. Sarah Power

PUBLICATIONS

Title: Machine learning predicts long-term mortality after acute myocardial infarction using systolic time intervals and routinely collected clinical data – 2024

Authors: Bijan Roudini, Boshra Khajehpiri, Hamid Abrishami Moghaddam, Mohamad Forouzanfar

Journal: Intelligent Medicine