

Andy Guevara

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Calgary, AB, Canada

Languages: Python, Java, C, C++, Matlab, SQL

Tools: Git, Azure Cloud, Tensorflow, Pytorch, Numpy, Pandas, MySQL, PostgreSQL, Spark

Experience

AltaML - Associate Machine Learning Developer Jan 2023 - Apr 2023

- Developed an innovative system for structuring maintenance documents utilizing advanced document recognition technologies.
- Engineered a Named Entity Recognition (NER) system by integrating OpenAI's API with a BM25 search engine, significantly enhancing the summarization process for maintenance documents.

Canadian Space Agency - Data Modelling Intern Jan 2022 - Apr 2022

- In collaboration with a senior scientist, spearheaded the development of an automated system for detecting electron density drops in the ionosphere using satellite data.
- Processed extensive time-series datasets and implemented semi-supervised learning techniques for data labeling.
- Developed and deployed a deep learning-based classifier, facilitating the efficient delivery of large-scale results through computational notebooks.

Stantec - Power Line Designer May 2018 - Dec 2020

- Played a pivotal role in the technical design and project management, contributing to the successful delivery of distribution power line projects across Southern Alberta.
 - Specialized in constructing electrical and structural models of power lines, leveraging geo-spatial data for enhanced accuracy and efficiency.
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Education

Master of Engineering in Software Engineering - University of Calgary May 2023 - May 2024

Bachelor of Engineering in Electrical Engineering - University of Victoria Jan 2020 - Nov 2022

➤ Specialization: Computational Intelligence

Projects

Real-time Human Emotions Recognition Using Deep Learning

- Implemented a custom YOLOv5 object recognizer using Pytorch to detect eyes in human faces
- Trained a ResNet-50 classifier to predict emotions from human eyes using Tensorflow

Analyzing EEG Data Using Signal Processing and Machine Learning Techniques [[Repository](#)]

- Applied Principal Component Analysis to multi-channel time-series data to reduce dimensionality
 - Trained and tested various machine learning binary classifiers using Scikit-learn
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Certifications

Microsoft - Azure Data Scientist Associate

Volunteering

YYC Data Community - Logistics Coordinator	Sep 2023 - Present
Data for Good - Datathon Participant	May 2023
YYC Data Community - YYC DataCon Volunteer	Mar 2023
University of Victoria's Global Community - Mentor for International Students	Jan 2022 - Aug 2022