

SCOTT MORA-ALCANTARA

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Education

University of Toronto

Bachelor of Science in Statistics, Computer Science, and Mathematics

September 2020 - December 2024 (expected)

Toronto, ON

Technical Skills

Languages: Python, SQL, R, HTML, CSS, JavaScript

ML: Pandas, Numpy, Matplotlib, PyTorch, OpenCV, Jupyter Notebook, Anaconda

Software Engineering: VS Code, Tableau, GitHub, Sublime Text, RStudio, Microsoft Excel, Vim, Jira, Confluence

Relevant Experience

Machine Learning Intern

June 2024 – August 2024

Cognizant - Generative AI Externship

Remote, Canada

- Employed Python and CNNs (AlexNet, VGG, ResNet) to achieve **over 90% accuracy** in classifying dog images for a city dog show, balancing computational efficiency with precision.
- Explored fundamental principles of generative AI and its development using PyTorch and Hugging Face tools.
- Applied parameter-efficient fine-tuning (PEFT) to customize pre-trained models for specific tasks, optimizing computational efficiency.

Data Analyst Fellow

January 2024 – June 2024

Correlation One

Remote, Canada

- Leveraged Excel for data literacy, querying, wrangling, and visualizations to solve business problems and conduct market research. Designed sales dashboards using Looker Studio and Tableau to enhance decision-making.
- Developed SQL skills for data querying and using aggregate functions to evaluate performance. Gained proficiency in Python, utilizing libraries such as Numpy and Pandas for data manipulation and analysis.
- Executed mini-projects and extended cases, applying quantitative modeling and dashboard design to real-world scenarios.

Software Developer Fellow

January 2023 – June 2023

Correlation One

Remote, Canada

- Designed responsive and animated web pages using advanced HTML, CSS, and Bootstrap. Created UI/UX designs with Figma and WordPress for seamless user experiences.
- Developed dynamic web applications using advanced JavaScript, including HTTP/HTTPS, APIs, and asynchronous programming. Worked with frameworks such as React, Angular, and Vue.
- Monitored website traffic and optimized SEO using tools such as Google Analytics and SEO score checkers. Improved website performance by analyzing user behavior and creating effective recommendation reports using A/B testing.

Projects

Spotify Recommendation System Using Machine Learning - *Content Based Filtering with Music.*

August 2024

- Utilized dataset of one million playlists and Spotify API to recommend music based on user preferences and music audio features using Python and JSON files.
- Employed machine learning techniques such as TF-IDF vectorization and cosine similarity, balancing genre, popularity, and audio features to create distinct recommendation models.
- Created an accessible web app for real-time user interaction and new music discovery using Streamlit with Hugging Face.

Formula 1 Data Analysis and Visualization - *Descriptive Analysis on Historical Data.*

June 2024

- Conducted Exploratory Data Analysis on Formula 1 data with Pandas, including cleaning, merging, and transforming datasets for a comprehensive Datafolio and dashboard using Tableau.
- Created interactive visualizations of race circuits and standings for enhanced data interpretation using Matplotlib.
- Developed a data-driven analysis of the Formula 1 data, integrating multiple public datasets to showcase race results and team performance.

Fantasy Football League Analysis - *Exploratory Predictive Analysis.*

July 2023

- Extracted data from public league API website to create a dataset with the use of Pandas and SQL.
- Demonstrated the use of statistics knowledge such as Monte Carlo Analysis and Normal distributions to analyze each teams chance of winning their matchup using Matplotlib.
- Implemented projections, team matchup information, and probability statistics to showcase distribution plots on the team schedule matchup outcomes using Python & Matplotlib.

Image-Based Survey Using Decision Tree Classifier - *Supervised Learning on Survey Data.*

December 2022

- Completed machine learning challenge with a team to implement a decision tree classifier with survey data using Python and Microsoft Excel.
- Cleaned the data set and analyzed possible predictors for the decision tree classifier by creating histograms with Matplotlib.
- Deployed Python, Numpy, and Pandas to create a decision tree classifier resulting in **4th place** overall.