Michael Ripa

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Recent graduate with a keen interest in backend development, data science, and machine learning. Seeking challenging roles for personal and professional growth. Driven to build a better future.

Selected Skills:

Programming languages: Python, C++, Bash, Java, SQL, Javascript, C
Python Libraries: NumPy, Pandas, Matplotlib, Transformers, Scikit Learn, SpaCy, Pytorch
Tools: Git, Kubernetes, Docker, NGINX, Jupyter, IPython, Linux, Tmux, Vim

Selected Experiences:

Software Developer   *January 2023 – Aug 2023*

Searidge Technologies, Ottawa, Ontario

- π   Carried out independent research project involving aviation related video classification.
- π   Proactively initiated the creation of Confluence articles detailing GPU optimization techniques.
- π   Demonstrated a proof-of-concept of an Nginx ingress controller on a local Kubernetes platform.

Machine Learning Intern   *September 2022 – December 2022*

IMRSV Data Labs, Ottawa, Ontario

- π   Utilized transfer learning and knowledge distillation to refine a compact NER model for a new language, leveraging data annotated by an expansive multilingual NER model.
- π   Collaborated in refactoring a Dockerized Apache Airflow ETL pipeline built with Python.

Data Analyst Co-op   *May 2022 – August 2022*

Public Service Commission of Canada, Gatineau, Quebec

- π   Independently designed and implemented a custom machine learning algorithm in Python to detect and flag duplicate entries from a large dataset of user accounts.

Selected Research:

Model Editing Honour's Thesis   *June 2023 – Present*

- π   Wrote a comprehensive review article that provides a succinct summary of model editing research, offers critical evaluations, and recommends directions for future research.
- π   Creating a pioneering dataset to evaluate model editing for moral judgments across four ethical frameworks, and conducting evaluations on language models for an upcoming paper.

Sentiment Analysis Project   *November 2021 – January 2023*

Science of Imagination Lab, Carleton University, Ottawa, Ontario

- π   Successfully web-crawled thousands of webpages in developing a > 400K sentence corpus.

EDUCATION

Bachelor of Computer Science & Mathematics   *September 2019 – April 2024*

Carleton University, Ottawa, Ontario

- π   11.30/12 CGPA (A), Dean's honor list 2020-2021. Ruth Lifeso Scholarship, 2023-2024
- π   Carleton AI Safety and Alignment (CAISA) – Founding President, 2023-2024