Konstantinos Kastritis

Email: dinokastritis@gmail.com Mobile: (905) 960-1970
Github: github/kkastr LinkedIn: linkedin/kkastr Website: https://kkastr.github.io Google Scholar: scholar/kkastr

SKILLS

- Python, C, C++, CUDA, SQL, Typescript, Pytorch, Deep Learning, NLP, Time Series Models
- Git, Linux, React, Docker

PROJECTS

Reddit Sentiment Analysis - kkastr/reddit-sentiment/

- Scraped comments from various subreddits and stored them in a database using Pandas.
- Performed sentiment analysis on the comments with the NLTK library.
- Created visualizations of the data yielding insight on the behavior of reddit users.

Predicting Stock Prices - kkastr/stock-price-predictions/

- Scraped historical ticker data from Yahoo Finance.
- Created a model for the time series of stock prices using LSTM neural networks.
- Generated predictions of future value.

EXPERIENCE

Ontario Tech University - Research Associate (Part-Time)   September 2021 - June 2022, Remote

- Implemented data pipeline to handle large amounts of simulation data (Python, SQL).
- Performed statistical analysis and designed metrics to provide research insight.
- Created visualizations of data for use in physics conferences (Python).
- Maintained software used for research, ensuring stability (Python, C++, CUDA).

Ontario Tech University - Graduate Research Assistant   September 2016 - August 2019, Oshawa, ON

- Provided theoretical and data-driven insight to experimental work, yielding two publications (Python).
- Added research specific features and API to GPU capable simulation software (Python, C++, CUDA).
- Enabled the group to transition from serial processing on clusters to GPU computing, which greatly improved productivity.
- Wrote internal documentation, and trained students in using simulation software with the custom API.

Ontario Tech University - Teaching Assistant   January 2015 - December 2020, Oshawa, ON

- Taught students in undergraduate physics and computer science courses.
- Assisted with increasing the amount of programming included in the physics program.

EDUCATION

Ontario Tech University
Bachelor of Science, Physics, 2016
Awarded NSERC undergraduate research award.
Honors Thesis: N-Body Simulations of Dark Matter Halos

Ontario Tech University
Master of Science, Materials Science, August 2019
Thesis: Computational Studies of Semiflexible Polymer Dynamics Under Confinement.