Misha Dubuc

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EDUCATION

Roger Williams University, Bristol, RI May 2021
B.S. in Computer Science, B.S. in Mathematics, minor in Business Analytics GPA: 3.991
Specialization in Data Science

SKILLS

Proficient in: Python, Java, Octave, Microsoft Excel, Tableau **Familiar with:** SQL, Ubuntu Linux, HTML/CSS, ArcMap

EXPERIENCE

Institutional Research, Roger Williams University Sep. 2018 - *present*
Junior Research Analyst

- Have troubleshot the university Census Warehouse in Excel every semester for missing and mismatched data
- Designed a series of Tableau dashboards that served as a Fact Book for the then-incoming president of RWU

Best Practice Energy Jun. 2020 - Aug. 2020
Sustainability Energy Intern

- Scraped electrical usage/weather data from ISO New England/WUnderground to find correlations, via Python
- Wrote an Excel VBA UserForm that requests JSON data on commodity futures strips from a REST API and formats it onto a spreadsheet

EXTRACURRICULARS

Analytics Club Sep. 2018 - *present*

- Won 1st place in the 2020 Scholastic Analytics Challenge, hosted by the Association for Information Systems
- Analyzed a CSV file of 2 million children's book orders to find trends in sales among several variables (e.g., income level), and formed a plan for Scholastic to better reach all demographics (a book "streaming service")
- Cleaned the dataset in Python by removing duplicate misspelled titles, using the FuzzyWuzzy library

PROJECTS

Stock volatility forecasting using Long Short Term Memory (on-going) 2021-*present*

- Collaborating with a professor to build an LSTM neural network that forecasts the CBOE Volatility Index, based on an autoregressive model
- Incorporating a multivariate model that also features hidden Convolutional layers for encoding purposes

NiCoMi Analytics web application (on-going) 2020-*present*

- Developing with two classmates a web application for Digital Marketing students that will visualize clients' social media performance on dashboards
- Have designed much of the front-end in HTML/CSS (e.g., a side navigation bar) and implemented Facebook authentication to access its Graph API, courtesy of the Facebook SDK

Movie recommenders 2019

- Programmed two movie recommenders in Python that apply content-based and collaborative filtering to compute similarities between films' genre tags and users' rating behaviors, respectively

IMDB sentiment analyzer 2019

- Built a logistic regression model in Python that classifies IMDB comments as either positive or negative
- Tested parameters (e.g., word vectorizers, stemmers, etc.) with *k*-fold validation to find an optimal model

HONORS

Alpha Chi National College Honor Society 2019 - *present*
Research & Industry in Science and Engineering (RISE) Scholarship 2019 - *present*