

Hussien Hussien

DATA SCIENTIST · DATA SCIENCE MAJOR · WESTERN UNIVERSITY

✉ me@hussien.net | 🏠 hussien.net | 📷 hussien-hussien | 🌐 hussienhussien

Skills

Programming, · Python · Bash · Java · Git

Analytics, Jupyter (IPython) · SQL · Seaborn · Google Analytics · Pandas

Machine Learning, supervised learning (linear regression, logistic regression, decision tree, gradient boosting, XGboost) · unsupervised learning (clustering, PCA) · Scikit-learn · Data Wrangling

Work Experience

Triage

Toronto, Canada

PRODUCT MANAGEMENT INTERN

May. 2019 - Aug. 2019

- Reduced customer acquisition cost by 54% by analyzing high-value user cohorts to refine targeting and messaging
- Led overhaul of analytics stack including tracking conventions and BI dashboards to empower data-driven decision making company-wide
- Ran analyses and A/B tests on website traffic to ultimately increase user activation rate by 18%
- Collaborated with cross functional teams to determine success metrics and growth targets of product launch

P10 Labs

Toronto, Canada

DATA SCIENTIST

Jan. 2018 - Apr. 2018

- Implemented a multi-armed bandit testing system on Elastic Beanstalk which allowed for landing pages to be tested iteratively and prioritized for conversions
- Leveraged Facebook Ads API as well as Flask + SQL to create dashboards & team-reports to track key campaign metrics
- Deployed a regression model to predict unprofitable campaigns which should be shut off early saving thousands of dollars in ad spend

Diply

London, Canada

DATA ENGINEER INTERN

Sept. 2017 - Dec. 2017

- Supported new 4-person social commerce team in scaling revenue-generated from \$0 to \$300K over internship
- Built automated pipeline to collect various CPA campaign data into simple insights and visualizations for weekly team meetings
- Built a cronjob in JavaScript to automatically extract campaign attribution data from various endpoints saving the BI team 3 hours per week
- Analyzed and resolved data discrepancies in campaign attribution saving the company \$32K/yr

Projects

A Hybrid Learning Approach to Detecting Regime Switches in Financial Markets - ICAIF20

MACHINE LEARNING RESEARCHER

Apr. 2020 - Present

- Presenting and publishing research paper on a novel regime detection method at ACM's International Conference on AI in Finance
- Developed trading algorithm based on supervised + unsupervised ML to beat the S&P500 by over 20% using macroeconomic data
- Techniques in use: Clustering, AdaBoost, Back-testing, Tactical Asset Allocation, R, Principal Component Analysis

TinyEarn - Python Package

DEVELOPER

May. 2020 - June. 2020

- Wrote open-sourced library to scrape historical earnings & revenue data for any American company in two lines of code
- Enabled Quants, Algorithmic Traders and Investors to easily pull financial data using browser automation
- Tools in use: Selenium, Pandas, BeautifulSoup4, asyncio, numpy

Credit Risk Analysis in Peer-to-Peer Lending Ecosystem

DATA SCIENTIST

January. 2020 - Mar. 2020

- Wrote credit risk algorithm to cherry pick junk loans from LendingClub.com resulting in 17% ROI over payback period
- Used Data Wrangling, feature engineering & Gradient-Boosted Trees to detect undervalued F & G grade loans.
- When back-tested, our portfolio of strictly junk bonds outperformed the benchmark of 'safer' A Grade loans by 9X

Education

Western University

London, Canada

B.S. IN DATA SCIENCE

Sept. 2016 - Exp. Apr. 2020

- Relevant Courses: Generalized Linear Models, Data Analysis, Probability & Statistics I & II, Databases I (SQL), Data Structures and Algorithms