Pouya Mohammadi

Passionate about using data to model human behavior and social phenomena

512.750.1370
pouya.mohammadi@duke.edu
pmohamma.github.io

EXPERIENCE

Amazon, Berlin, Germany — *Software Development Eng. Intern*
June 2020 - August 2020

- Worked on a team creating an open-source time-series modeling library
- Created a pipeline for the cold-start problem using models from the team's library and used it to explore benchmarking scores
- Wrote code to update deprecated parts of the team's library and improve new code for deployment

Storyfit, Austin, TX — *Data Science Intern*
May 2019 - July 2019

- Developed code to automate cross-datasource movie and contact deduplication using AWS, Import.io, and Hubspot APIs as well as fuzzywuzzy, pandas, re, and numpy Python packages
- Post-processed and visualized different model outputs for customer deliverables & internal performance metrics using Python, JSON, SQL, & R
- Wrote scripts to ease clean up and visualization of Storyfit's AWS database

Bad Idea Factory, Durham, NC — *Software Engineer Intern*
Dec 2018 - May 2019

- Created an application similar to Grammarly for political journalists to identify bias in their writing
- Developed a script to parse all speeches given in Congress and return a list of the most partisan phrases using scipy, nltk, and re Python packages

Trinity University, San Antonio, TX — *Research Co-Author*
June 2018 - Present

- Developed Python scripts to scrape and organize open source data
- Read literature on the sociology of climate change and helped make executive decisions on the research

PAPERS, COMPETITIONS & PROJECTS

A Transformer Approach to Sarcasm Detection in Twitter
- Paper accepted to the Association for Computational Linguistics (ACL) journal and presented at the ACL conference
- Placed 6th out of 50 teams in a 4 month NLP competition to detect sarcasm
- Gained extensive knowledge in transformers, topic modelling, embedding styles, and other NLP topics, as well as GPU usage

Duke Datafest 2020
- Won in the "Judge's Pick" category with an analysis of how COVID-19 is disproportionately affecting communities of color

Analysis of Political Tweets
- Used k-means clustering to analyze whether there is a correlation between features of a candidate's tweet and their position in the polls.

CAMPUS AND COMMUNITY INVOLVEMENT

Duke Housing — *Residence Assistant*, 2019-2020
Duke Persian Association — *Communications Director*, 2018-Present
Congressman Lloyd Doggett — *Congressional Intern*, 2018
Trinity Progressives — *Organizational Relations Director*, 2017-18

SKILLS

Python, Java, R, SQL, HTML, CSS, and Scala

Windows, MacOS, and Linux

Farsi (conversational) and Latin (read and write)

RELEVANT COURSEWORK

Machine Learning-Intro PhD level
Design/Analysis of Algorithms
Intro to AI
Intro to Data Science
Data Structures & Algorithms
Low-Level Computing
Discrete Mathematics
Linear Algebra
Statistics
Probability
Calculus 3
Regression Analysis

EDUCATION

Duke University
Durham, NC
Bachelor of Arts - Data Science
2021

GPA: 3.873
Dean's List 3/4 semesters
Wayne Manor Social Group

Trinity University
San Antonio, TX
Bachelor of Arts - Computer Science and Political Science
2017-2018

GPA: 3.87
Dean's List every semester
Murchison Scholar

HOBBIES

Basketball
Politics
Thrift Shopping