Abhinav Madahar

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DATA SCIENCE EXPERIENCE

Johnson & Johnson Data Science Co-op April 2020 — September 2020

 $Titusville,\ NJ,\ USA$

- · Predicted glaucoma with 81% accuracy, 85% sensitivity, and 75% specificity using an RNN
- · Previous ML models for glaucoma required retinal scans, but this is the first in the world which doesn't
- · The model reads a patient's drug usage, disease history, basic medical data, and medical device usage
- · Applied the same model to predict cataract onset and got promising results

Oracle

May 2019 — August 2019

Santa Clara, CA, USA

Data Science Intern

- Replaced existing 91% MASE model with my 95% MASE model
- · Developed CNN-based, LSTM-based, and GRU-based time series models to predict cloud service usage
- · Gave model's forecast to business side so they can use it to buy sufficient GPUs for upcoming quarter
- · Automated data processing pipeline in Python which was previously done manually in Excel

Johnson & Johnson

May 2018 — August 2018

Somerville, NJ, USA

Medical Devices Data Science Intern

- \cdot Used RNNs and CNNs to recognize human activity using wearable sensor data at 95% accuracy
- · Predicted post-op complications using ML techniques like naive bayes with real-world electronic health data

WEB DEVELOPMENT PROJECTS

Guesstimoji

qithub.com/abhinavmadahar/quesstimoji

May 2021 — Present

- · Developed web game using React with Redux, Node with Express, and MongoDB
- · Worked on both frontend and backend to add features, including a button to restart the game after a player wins
- · Used web sockets to communicate between clients and server

Movie Recommendation Website

qithub.com/abhinavmadahar/cs550-project

Spring 2021

- · Developed front-end and back-end for website that recommends movies
- · Used ECMAScript 6 on the front-end and Flask on the backend

Bike Ridership Visualizer Website

Spring 2020

- · Developed website that visualizes bike ridership in NYC for graduate CS class
- · Used Flask for Python on the backend and Mapbox with Plotly on the frontend
- · The professor praised my development and gave me a paid lab position over the summer

RESEARCH EXPERIENCE

Research Experience for Undergraduates (REU)

Summer 2020

Research Assistant

github.com/abhinavmadahar/abello

Rutgers University

- · Explored plotting very large network graphs using summarization techniques
- · Applied techniques to a graph-based data set of short stories to find literary patterns and clusters
- · Used Python with NetworkX

EDUCATION

Rutgers University-New Brunswick

September 2017 — May 2021

B.Sc. with double major in Computer Science and Mathematics

3.4 CS GPA