Abhinav Madahar

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INDUSTRY EXPERIENCE

Academia.edu   July 2021 — March 2022
Software Engineer   *San Francisco, California*
- Helped develop Academia's core web app, focusing on the new courses product
- Worked across the stack, using React with Typescript on the frontend and Ruby on Rails on the backend
- Ran A/B tests to find which emails resonated the best with users

Johnson & Johnson   April 2020 — September 2020
Data Science Co-op   *Titusville, New Jersey*
- 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
Data Science Intern   *Santa Clara, California*
- 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
Medical Devices Data Science Intern   *Somerville, New Jersey*
- 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

RESEARCH EXPERIENCE

Research Experience for Undergraduates (REU)   May 2020 — September 2020
Research Assistant   *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

University Lab   September 2017 — September 2018
Research Assistant   *Rutgers University*
- Introduced to machine learning, focusing on using deep learning with RNNs to summarize documents

CLASS PROJECTS

Bike Ridership Data Visualization Project   January 2020 — May 2020
- Developed website that visualizes bike ridership in NYC for graduate CS class using plotly and mapbox
- The professor praised my development and hired me as a research assistant to continue working on this project

EDUCATION

Rutgers University   September 2017 — May 2021
B.Sc. with double major in Computer Science and Mathematics   *New Brunswick, New Jersey*