

# Abhinav Madahar

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## EXPERIENCE

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### Oracle, Inc.

May 2019 — August 2019

*Data Science Intern*

*Santa Clara, CA*

- Replaced existing 91%-accuracy model with my 95%-accuracy 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
- Used generative sequence-to-sequence models to project future usage requirements for EOL-ed parts
- Won Peer-to-Peer Award for automating major business tasks, saving hundreds of work hours per year

### Johnson & Johnson

May 2018 — August 2018

*Medical Devices Data Science Intern*

*Somerville, NJ*

- Used RNNs and CNNs to recognize human activity using wearable sensor data
- Predicted post-op complications using real-world electronic health data
- Used high-performance Linux utilities to remove bottlenecks in data preprocessing pipeline
- Applied other machine learning techniques, including SVMs and random forests
- Presented my teams deep learning innovations to company leaders

### Prof. Gerard de Melo Lab

September 2017 — August 2018

*Research Assistant*

*New Brunswick, NJ*

- Improved a query-based text summarizer using RNNs with attention
- Improved stability of new search engines
- Developed programs to evaluate and improve deep learning models
- Deployed the labs models onto Rutgers supercomputers

## AWARDS

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### Oracle Peer-to-Peer Award

July 2019

- Won for automating grueling bureaucratic work using Jupyter lab

### Google Award for Data Science

February 2018

- Won for Developing ASSIST, a stroke survival predictor
- Used supervised learning to predict whether a stroke patient will survive for 14 days
- Also won the John Snow data science award and HopHacks award for 3<sup>rd</sup> place overall best project

## SOFTWARE DEVELOPMENT PROJECTS

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### Rutgers Treasure Hunt

August 2019

- Programmed GPS-powered, web-based game which tracks player's movement through physical space
- Tasked players with finding clues hidden throughout Rutgers campus
- Encouraged exploration through Rutgers' landmarks with original technique

## EDUCATION

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### Rutgers University, New Brunswick

September 2017 — Present

B.Sc. in Mathematics and Computer Science