

Sotiris Karagounis

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Profile

- Rising senior with in depth data science skills and familiarity with the healthcare industry
- Experience in applying machine learning algorithms, statistics and programming to

Experience

Data Science Intern

Commonwealth Care Alliance, Boston, MA

May 2019 - Present

- Developed an anomaly detection model to predict which members will develop opioid abuse use disorder
 - Resulting PPV in the most confident outputs outperforms heuristic rules currently used
- Used geographic clustering techniques to ensure an equal distribution of work among approx. 300 company's staff
- Practiced breaking down business problems and presenting results to stakeholders
- Hosted a data science workshop with a case study involving my work

Mobile App Development Intern

IQTaxi, Thessaloniki, Greece

June 2018 - July 2018

- Developed a React Native App for iOS and Android that is used by a client company
- The app allows for the elderly to track their driver appointments to medical facilities and doctors' appointments

Teaching

Teaching Assistant, Brown University

June 2018 - May 2018

- A teaching assistant for "Introduction to Algorithms and Data Structures" (approx. 250 students) and "Introduction to Object-Oriented Programming" (approx. 400 students)
- Graded students' projects and assignments
- Held regular TA hours
- Held weekly labs and section (approx. 20 students)
- Improved upon lectures and class materials

Projects

Yale Hackathon (YHack)

- Created with a team a Google Chrome extension called FakeOut that detects whether the article that is about to be posted by a user on Facebook is fake news.
- Acknowledged for a prize in the Fake News category.
- Used libraries: scikit-learn, Flask, Beautiful Soup

CS 0160 Machine Learning Project

- Designed a homework project to introduce students unfamiliar with CS to machine learning.
- Students write an ID3 algorithm to create a decision tree using support code provided.

Education

Brown University, RI

2016 - Present

Sc.B. in Applied Mathematics and Computer Science

Expected Graduation Year: 2020

GPA: 3.6

Skills

Proficient in: Python (2+ yrs of exp.)

Experience in: MATLAB, R, SQL
(<1 yr of exp.)

Familiar with: scikit-learn, numpy, pandas, Keras, TensorFlow

Select Coursework

- Introduction to Discrete Structures and Probability
- Machine Learning
- Deep Learning
- Linear Algebra
- Statistical Inference I
- Computational Statistics and Probabilities
- Computational Linear Algebra
- Recent Applications in Statistics and Probability
- Introduction to Statistical Learning and Big Data

Interests

I am interested in astronomy and public transit. Other interests include: cooking, LGBT events and science fiction novels.