

# DAN TADMOR

Data Scientist  
Mathematician



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## PROJECTS

### NBA Player Growth

Predicted future NBA player performance in 8 key advanced analytic metrics through scraping player tracking data, creating weighted features, and applying regularized regression at an improvement of up to 26% over baseline predictors.

### West Nile Virus Locations

Modeled where to find West Nile virus with 77% sensitivity by retrieving appropriate datasets, employing research tested methods to create predictive features, oversampling the minority class, and using a shallow random forest

### Reddit Classification

Determined the subreddit origin of Reddit posts with 98% accuracy using stemmers and TFIDF vectorizers on posts and then applying logistic regression in order to understand language differences among different communities

## ABOUT ME

Driven data scientist skilled at exploratory data analysis, applying machine learning methods, translating real world problems into data science ones, working in teams, and balancing multi-year projects with short term deadlines.

## DATA SCIENCE EXPERIENCE

### DATA SCIENCE INTERN

iRobot | Nov '18 - Present

- Predicted customer satisfaction using clustering and classification models on user behavior to help automate customer communication
- Collaborated with members of marketing, engineering, and data teams to understand how to best define and solve problems with data
- Communicated findings across teams using visualizations created in Plotly

### DATA SCIENCE IMMERSIVE

General Assembly | Jul '18 - Oct '18

- Learned EDA and machine learning methods in Python in a 480-hour intensive course

### ARTIFICIAL INTELLIGENCE MICROMASTERS COURSE

Columbia University, EdX | Jan '18 - Apr '18

- Utilized natural language processing to conduct sentiment analysis on IMDB reviews
- Built intelligent agents for search problems, games, and constraint problems
- Created machine learning models using classification, linear regression, and perceptrons

## OTHER WORK EXPERIENCE

### 6<sup>th</sup> GRADE MATH AND SCIENCE TEACHER

McAuliffe Charter School | Aug '12 - Aug '18

- Created an alternate method for teaching computational skills, utilizing performance data, that resulted in a 50% increase of student mastery
- On the academic leadership team, improved school wide academic performance in coordination with school leaders while balancing the needs of teachers
- As a member of the culture leadership team, taught teachers how to successfully implement team building activities with students

## EDUCATION

**M.A.T. ELEMENTARY EDUCATION** Northeastern University | Sept '10 - Sept '11

**B.S. MATHEMATICS** University of Illinois | Aug '05 - May '09

## SKILLS

### CODING LANGUAGES & LIBRARIES

- Python - Pandas, Scikit-learn, Statsmodels, Numpy, Plotly, Bokeh, and Keras
- SQL