DAN TADMOR

Data Scientist
Mathematician

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Coding Languages & Libraries

Python
- Pandas
- Scikit-learn
- Statsmodels
- Numpy
- Matplotlib
- Seaborn
- Keras

SQL

Machine Learning Methods

Generalized Linear Models
Regularization
CART
Support Vector Machines
Neural Networks
Count and TFIDF Vectorizers
Bagging and Boosting
Clustering
Principal Component Analysis
Pipelines

Hobbies

Basketball
Boardgames
Reading

ABOUT ME

Driven mathematician and educator turned data scientist. Skilled at facilitating small and large groups, working in teams, breaking down complex concepts into manageable chunks, building and implementing organization-wide systems, and balancing multi-year projects with short term deadlines.

DATA SCIENCE EXPERIENCE

DATA SCIENCE IMMERSIVE

General Assembly | Jul '18 - Oct '18

- Learned machine learning methods in Python over a 480 hour intensive course
- Modeled where West Nile virus could be found 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
- 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
- Predicted home prices in Ames, Iowa by engineering features that were highly correlated with price and applying regularized regression methods

ARTIFICIAL INTELLIGENCE MICROMASTERS COURSE

ColumbiaX | 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

WORK EXPERIENCE

6th 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
- Designed the 6th grade math and science curriculum by breaking down large concepts into understandable sequential steps
- Co-created and installed a school-wide behavior management framework on the culture leadership team improving consistency and effectiveness of teacher expectations
- Taught teachers how to successfully implement team building activities with students
- On the academic leadership team, improved school wide academic performance in coordination with school leaders while balancing the needs of teachers
- Communicated regularly with parents, administrators, and teachers on how to best support students
- Strengthened student relationships by coaching the boys basketball team

EDUCATION

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

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