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David Currie

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Education

Udacity - *Deep Learning Nanodegree Foundation* (Syllabus) *January 2017 - June 2017*

Udacity - *Data Analyst Nanodegree* (Syllabus) *August 2016 - October 2016*

McGill University - *Bachelor of Commerce* *September 2010 - May 2014*

Award: Mobility Award for excellent academic standing while participating in an exchange program.

Skills

- Languages: Python, R, SQL, Hive, D3.js, HTML, CSS.
- Software: Excel, Tableau, Amazon Web Services.
- Spoken Languages: German (conversational), French (intermediate).

Projects

Duplicate Questions - https://github.com/Currie32/Predicting-Similar-Questions *February 2017*

- Predicted if pairs of questions have the same meaning using TfidfVectorizer and Doc2Vec. The questions' cosine similarity was used to measure the difference.

Predicting Destination - https://github.com/Currie32/AirBnB-Predicting-Destination *February 2017*

- Built a neural network, using TensorFlow, to predict the five most likely countries (out of twelve) a new user of AirBnB will book their first trip to.

Credit Card Fraud - https://github.com/Currie32/Predicting-Credit-Card-Fraud *January 2017*

- Used TensorFlow to build a neural network that could predict fraudulent credit card transactions with 83% accuracy and non-fraudulent transactions with 99.9% accuracy.
- Visualized the data using t-SNE before and after feature engineering. The fraudulent transactions in the latter plot are all in groups, which signals the benefits of transforming the data for training the model.

Bike Sharing Services - https://github.com/Currie32/Bike-Sharing-in-SF-and-Seattle January *2017*

- Compared the bike sharing services in San Francisco and Seattle, using R and Plotly, to understand how their riderships differ based on daily conditions.
- Created a regression model in Python, using an ensemble of algorithms, that could predict the daily ridership in San Francisco, with a median absolute error of 47 trips per day.

Water Pumps - https://github.com/Currie32/Water-Pumps-DrivenData *December 2016*

- Developed a classification model, using R, that could predict, with over 82% accuracy, if a water pump in Tanzania is functioning, functioning + needs repair, or not functioning. Scored in the top 3% of competitors.

Experience

Project Reviewer *January 2017 - Present*
Udacity; Remote

- Consistently earned 5-stars for reviews by providing specific feedback, and encouraging comments to help students complete their projects.

Division Leader *June 2016 - August 2016*
Timber Lake Camp; Shandaken, New York

- Coordinated with counsellors to help campers make and keep friendships via organized activities, resulting in 100% re-enrolment of the division's twenty-eight campers.
- Coached and challenged counsellors to improve their talents, which helped eight out of the division's eleven counsellors earn the highest evaluation grade.