

AN HOANG

DATA SCIENTIST

Experience

Brava

Data Analyst

Redwood City

Aug. 2018 to Feb. 2019

- Designed and implemented experiments to synthesize data for predictive models and algorithms.
- Prototyped and tested models on oven hardware to build a smarter oven that will improve user experience and perfect the cooking process.

UC Berkeley

Dance Coach

Berkeley

Oct. 2013 to Sept. 2018

- Designed a yearly dance syllabus and taught all levels of dancers from beginner to advance in order to train a nationally competitive dance team.
- Provided mentorship and guidance to create a self-sustaining team governance structure while sharing personal dance expertise and passion to enrich the experiences of student dancers.

MapJam

Data Analyst

San Francisco

Apr. 2015 to Sept. 2015

- Provided product analytics by aggregating multiple sources of data into a SQL database and building out a frontend interface (hosted on AWS, using flask/jinja) for key statistic summaries.
- Conducted analytics as necessary in a startup environment, and attended ESRI startup convention with co-founder as product evangelist.

Data Projects

Pedestrian Detection with Masked R-CNN

Proof of concept application of a state-of-the-art computer vision algorithm to count, segment, and colorize individual pedestrians in a scene using a masked R-CNN. Demonstrated how such an algorithm can be used for a wide variety of tasks such as counting foot traffic, intruder detection, or as a stylized 'color splash' photo generator.

Satellite View of Inequality

Used GIS tools and a random forest algorithm to predict high poverty blockgroups in San Francisco. Joined high resolution orthoimage data of SF from USGS's aerial photography asset with tabular data (corresponding to American Community Survey's income statistics) to train a classifier to predict the poverty level given a square aerial image patch within SF.

Natural Language Processing on Stock Movement

Compiled financial filings from 12 years of 10-K and 10-Q data from companies within the Russell 3000 index along with numerical stock features to perform a time series prediction on the market -day-after-filing's stock pricing (normalized to index performance). Models used pre-trained GloVe embeddings to transform textual data, which was ran on a CNN network, and a GRU network.

Prius Price Prediction

Gathered data on a particular day for all of the United States from well known online used car service to predict the price of used Priuses. Used a set of ten primary features such as car age and odometer mileage in a linear classifier (with transformed features) to predict the price of used Priuses with a 83% holdout accuracy.

Contact

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Education

University of California, Berkeley

BA Japanese

Deeplearning.ai

Deep Learning

Specialization

Covered neural nets, CNN, RNN, LSTM, GRU, hyperparameter tuning, and practical ML project structure

Skills

PROGRAMMING:

Python

Scikit-Learn

Statsmodels

Pandas

GeoPandas

R

SQL

mongoDB

Keras/Tensorflow

Rasterio/GDAL/Fiona

AWS/EC2

Spark

DATA SCIENCE/ML:

Bayesian Models

Regression

Classification

Sequence Models

Scraping

Neural Nets

Clustering

NLP