

# Donald Fung

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## Skills

*Languages:* Python, Objective-C, SQL

*Frameworks/Libraries:* Jupyter, Spark, Keras

*Databases:* SQLite

*IDEs:* Spyder, Xcode

*Command Line:* Piping, Git

## Projects

### Automatic E-mail Categorization - August 2016

- Successfully classified employee e-mails into folders using multiclass classification
- Use bag-of-words model to convert text documents into numerical feature vectors

### Stock Price Predictions - August 2016

- Predict prices of the S&P500 Index using supervised learning
- Currently working on model-free approach to provide daily trading signals on individual stocks

### Image Recognition using Neural Networks - April-June 2016

- Trained a convolutional neural network to recognize images in the CIFAR-10 dataset
- Used the Keras library to build a similar version of the Vgg-Net to improve prediction accuracy

### Train a Smartcab to Drive using Reinforcement Learning - April 2016

- Integrated Q-learning to update the state and the action of the agent after each time step
- Successfully trained the agent to reach it's destination in the given timeframe

### Creating Customer Segments - April 2016

- Applied dimensionality reduction on the dataset to extract new composite features from the input features
- Segmented customers into distinct categories using k-means clustering

### Build a Student Intervention System using Supervised Learning - March 2016

- Trained SVM to predict how likely a student is to pass or fail their high school exam
- Experiment using Support Vector Machines, Decision Trees and K nearest Neighbors algorithms

## Professional Experience

### iOS intern, App Partner - October 2015-February 2016

- Support developer with the responsibility of implementing features and fixing bugs
- Contributed to submissions of several production apps in the Apple Store including Stubble and The DJ Calendar

## Education

*Udacity, Machine Learning Engineer Nanodegree - Online Course, 2016*

*Turn To Tech, iOS Development, New York, New York, 2015*

*Southern Methodist University, Bachelor of Science in Economics, Dallas, Texas, 2010*