ADRIAN YI

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Personal page | LinkedIn | GitHub

Data Scientist with 5+ years of experience in research, analysis, and programming

SKILLS

Programming	Python, MATLAB, HTML/CSS/JavaScript, Unix
Deployment	AWS, Flask, Docker, PostgreSQL
Analysis	SQL, Pandas, Scipy, Matplotlib, Seaborn, D3.js
ML	Classification, Regression, NLP, Scikit-learn, Keras, TensorFlow

PROJECTS

Topic Insight (https://topicinsight.adrianyi.com/)

- Designed a general NLP product that finds similar documents and extracts words correlated with business metrics like higher views, faster responses for emails, etc.
- Built a live example app using 260,000 grants abstracts and their number of citations
- Merged and cleaned 5 separate data sources, each with millions of rows
- Tech: Python, NLP, Pandas, Scikit-learn, Flask, Docker, PostgreSQL, visualization

Dog Breed Classifier App (https://adrianyi.com/2017/11/DogBreedApp.html)

- Built an app that can classify an image into one of 133 dog breeds with 86% accuracy
- Deployed the model on AWS using Flask and Docker. Try it on the link above!
- Tech: Python, CNN, Keras, transfer learning, AWS, JavaScript

EXPERIENCE

Research Fellow & Research Consultant – Boston University   May 2011 – February 2018

- Led a team of 3 researchers to create models that explains the inner workings of proteins used to control neuron cell activity
- Automated data pipeline using MATLAB, reducing analysis times by over 10x
- Built the lab's first time-resolved analysis technique using a custom baseline correction and SVD that maps the protein's state from 10^{-9} to 10^3 seconds range

Teaching Fellow – Boston University   September 2010 – May 2012

- Taught Intro to Physics discussion classes for engineering students

EDUCATION

Boston University   Boston, MA | Sept 2010 – May 2017

- Ph.D., Physics

Franklin and Marshall College   Lancaster, PA | Sept 2005 – May 2009

- B.A. Physics and Mathematics