

ADRIAN YI

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Physicist with 5+ years of experience in coding and analysis transition into data science

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

EXPERIENCE

Graduate Research Fellow – Boston University	May 2011 – May 2017
<ul style="list-style-type: none">Led a team of 3 researchers with an offsite advisor to develop models for newly discovered proteins that can control neuron cell activityMigrated data acquisition, cleaning, and analysis to automated MATLAB codes, reducing analysis times by more than 10xBuild the lab's first time-resolved analysis using SVD that maps the protein's state from 10^{-9} to 10^1 seconds rangeDeveloped automatic baseline correction technique with custom functions that enabled time-resolved analysis	

EDUCATION

Boston University	Boston, MA Sept 2010 – May 2017
<ul style="list-style-type: none">Ph.D., Physics	
Franklin and Marshall College	Lancaster, PA Sept 2005 – May 2009
<ul style="list-style-type: none">B.A. Physics and Mathematics	

PROJECTS

Dog Breed Classifier (https://adrianyi.com/2017/07/DogBreedClassifier.html)
<ul style="list-style-type: none">Built a deep learning model that can classify an image into one of 133 dog breedsTrained a transfer learning model (ResNet) that achieved 86% accuracyDeployed the model on AWS using Flask and Docker
Baby Weight Predictor (https://adrianyi.com/2017/09/GCP_ML_babyweight.html)
<ul style="list-style-type: none">Trained a neural network model to estimate a baby's weight with ~1lb RMSE, 23% increase from mean value estimatorQueried and analyzed 138M rows of data on Google Cloud Platform