abbiepopa@gmail.com linkedin.com/in/abbiepopa 401-440-5228 github.com/abbiepopa

EDUCATION

PhD University of California at Davis, Davis, CA, (September 2012 - December 2017)

Major: Cognitive Neuroscience with a Data Science Initiative Affiliation

Honors ScB., Brown University, Providence, RI, (September 2006-December 2010)

Major: Cognitive Neuroscience

TECHNICAL SKILLS

R, Matlab, Python, Jupyter, git, SQL, SPSS, DataGraph, LATEX, HTML, CSS Packages including ggplot, nlme, sklearn, pandas

PROJECTS

Kaggle Done Quick: Animal Shelter Predictions

FastText Horror Author Classification

- Used Facebook's publically available package FastText to classify text
- Populated data from Project Gutenburg of copyright free text
- Achieved 80% accuracy for single sentences between two horror authors (Mary Shelley and H.P. Lovecraft)

Driven Data: Blood Drive Donations

- Cleaned data in pandas to account for outliers and unusual distributions
- Used sklearn to cross-validate multiple models, eventually selecting random forest classification
- Collaborated with three other data scientists
- \bullet Finished in the top 10% of competitors

Kaggle: Fish Identification

- Used skimage, tensorflow, and tflearn to classify fish images from a kaggle data set
- Colloborated with three other data scientists to apply convolutional neural networks

TECHNICAL EXPERIENCE

PhD Researcher

Davis, CA

UC Davis MIND Institute and Neuroscience Graduate Group September 2012 - present

- Developed 6 child-friendly computerized behavior tests (disguised as games)
- Used k-means clustering to classify children as "copers" or "strugglers" based on behavioral, eye-tracking, and self-report measures
- Used ICA to isolate brain activity from noise in EEG data
- Used non-linear modeling to classify participants behavior over time
- Used linear regression to correlate trajectories of brain development and children's outcomes in a large (500 GB) dataset
- Programmed data analyses and visual stimuli using R, Python, and Matlab
- Trained and mentored four junior research assistants and seven volunteer interns

Davis Incubator Group

Davis, CA

Student organized group at UC Davis January 2016 - Present

President Member (September 2016 - present) (January - August 2016)

- Completed online coursework in python, SQL, and machine learning
- Participated collaboratively in online machine learning competitions, finishing in the top 10% of a drivendata.org competition
- Organized and scheduled meetings for a group of 6-8 data scientists to practiced coding, machine learning, and share data science skills

LEADERSHIP AND COMMUNITY

EXPERIENCE

International Rescue Committee

Refugee Empowerment Volunteer (Focus on Computer Support/Literacy) (Jan 2017 - Present)

Explorations, UC Davis Undergraduate Research Journal

Editor (Feb - June 2015)

Managing Editor (Sept 2015 - Present)

Neuroscience Initiative to Enhance Diversity

Student Organizer (Event held April 2016)

Neurobiology (class of 200 undergraduates)

Teaching Assistant (April - June 2015)