Abbie M. Popa, Ph.D.

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TECHNICAL EXPERIENCE

App Annie   San Francisco, CA

Senior Data Scientist   August 2019 - present

- Building machine learning models to help business customers navigate the mobile app marketplace
- Modeled likely causes of interesting events to surface insights to our customers in the Data Stories product

Cogitativo (healthcare consulting start-up)   Berkeley, CA

Data Science Intern   April 2019 - June 2019

- Developed models, metrics, and Tableau dashboards from millions of records stored in AWS Redshift to understand healthcare operations data.

The Data Institute at the University of San Francisco   San Francisco, CA

Data Science Postdoctoral Fellow   August 2018 - July 2019

- Described nodes in brain networks from patients with schizophrenia and healthy controls using self-supervised machine learning (feature embeddings)
- Contributing to a web-based app for mass processing of electroencephalography (EEG)
- Consulted on collaborations with 3 private sector companies using computer vision and natural language processing
- Managed projects resulting in 2 published IEEE proceedings using PySpark and SparkML to make predictions on EEG data in collaboration with other researchers
- Instructed and developed an Introduction to Data Science class for 36 undergraduates
- Completed deep learning coursework using fast.ai and PyTorch (fast.ai certification course)

University of California at Davis   Davis, CA

Ph.D. Researcher   September 2012 - June 2018

- Used techniques including mixed effects linear modeling, k-means clustering, and ICA interpret data in participants' behavior and brain activity over time
- Trained and mentored 6 junior research assistants and 7 volunteer interns
- Produced 4 manuscripts (2 accepted) and completed 18 conference presentations
- Helped organize and run Davis Incubator Group, a group for graduate students interested in machine learning and data science
- Consulted with members of the UC Davis community on data science problems from twitter scraping to genomics as an affiliate of the Data Science Initiative

TECHNICAL SKILLS

Software include: PySpark, Python, R, git, PostgreSQL

Packages include: sklearn (contributor), pandas (contributor), NumPy, SparkML, PySparkSQL

EDUCATION

Ph.D., University of California at Davis, Neuroscience

Honors Sc.B., Brown University, Cognitive Neuroscience

LEADERSHIP AND COMMUNITY EXPERIENCE

Software Carpentry

Certified Instructor for bash, git, R, and Python   May 2018 - Present

International Rescue Committee

Refugee Empowerment Volunteer   January 2017 - October 2017

Explorations, UC Davis Undergraduate Research Journal

Editor   February 2015 - August 2015

Managing Editor, Physical and Life Sciences   September 2015 - June 2017