Davina Zamanzadeh

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EDUCATION

COMPUTER SCIENCE PhD at **University of California, Los Angeles**, completed 08/2023

GPA: **4.0**, Executed end-to-end machine learning projects on raw data: exploratory data analysis, building data pipelines, and then developing, evaluating, and delivering predictive models.
Dissertation (⬈ github.com/davzaman/autopopulus): *Imputation is a Hyperparameter: Imputation Deep Learning Model Selection and Evaluation on Large Clinical Datasets*.

Tech: pandas pytorch sklearn xgboost aws azure git neural networks big data

COMPUTER SCIENCE BSc at **University of California, Santa Barbara**, completed 06/2018

GPA: **3.93/4.0**, **Ranked #1** in graduating class with Distinction in Major.

WORK EXPERIENCE

DATA SCIENCE INTERN at **Microsoft**, *Remote* from 06/2021 - 09/2021

Best In-House Image DNN: Built a global, lightweight model to perform well across many different eCommerce computer vision tasks by developing and implementing a semi-novel deep neural network (DNN) technique based on state-of-the-art research.
• Sped up model training roughly 3x by optimizing memory usage (allowing batch sizes 32x larger).
• Wrote easily extensible code across the data preprocessing and model loading pipeline in order to enable fast iteration and to expand my work to a larger set of eCommerce datasets and tasks.

Tech: python tensorflow keras

MACHINE LEARNING INTERN at **Pinterest Labs**, *Remote* from 06/2020 - 09/2020

Query Recommendations: Built a gradient boosted decision tree to improve query recommendations to improve user engagement and experience.
• 156k increase in daily searches (3.09%), and sustained lift in product usage past week 1 of the experiment. Ran A/B testing experiments to measure product impact.
• Worked on the full machine learning pipeline (collect training data, assign labels, engineer features, train, evaluate, and deploy), and built workflow for grid search / hyperparameter tuning.

Tech: python java scala hadoop sql

SOFTWARE ENGINEER INTERN at **Pinterest**, *San Francisco, CA* from 06/2017 - 09/2017

New Annotations Pipeline: Worked on a Machine Learning and Natural Language Processing-focused team. Built and optimized core components for Annotations (a powerful textual learning signal used across Pinterest), such as: underlying dictionary of terms and their canonical forms.

Tech: python java scala scalding spark

ACTIVITIES AND AWARDS

Featured Guest on Health and Explainable AI Podcast; 03/2023 Discussed my experience working on intersectional projects in the clinical domain, and my ideas on the future of responsible AI in health. ⬈ davinaz.me/podcast

Scientific Python Community Manager; 2022 - PRESENT Help moderate the Discord and the Discuss forum online of the Scientific Python open-source community.

Podcast Treasurer + Content Advisor; 2020 - PRESENT Manage funds and help create content (e.g., social media, writing and narrating episodes) for For Your Informatics, a podcast exploring medical informatics led by Women in AMIA (American Medical Informatics Association).

Phi Sigma Rho Chapter Founder; SPRING 2016 - SPRING 2018 Established the chapter of Phi Sigma Rho, a nationally recognized sorority focused on women in STEM, at UCSB as part of the founding class. In charge of designs, and involved in planning events, writing bylaws, recruiting, and mentorship.