Contact

www.linkedin.com/in/yuwenwu (LinkedIn)

Top Skills

Data Analysis
Neuroscience
Python

Languages

English (Native or Bilingual)
Spanish (Limited Working)
Chinese (Traditional) (Professional Working)

Certifications

Machine Learning by Stanford University on Coursera

Honors-Awards

Predoctoral Ruth L. Kirschstein National Research Service Award
Barry M. Goldwater Scholarship Honorable Mention
Senior Honors Thesis

Patents

Real Time Fault Tolerant Stateful Featurization

Yuwen Wu

Staff Software Engineer - Machine Learning
San Francisco Bay Area

Summary

I am a former molecular neurobiologist turned data scientist with experience in experimental design, statistics, and productionizing machine learning models. I am passionate about telling stories with data, finding new things to learn, and anything food related.

Experience

LinkedIn
4 years 4 months

Staff Software Engineer - Machine Learning
March 2023 - Present (2 months)

Senior Software Engineer - Responsible AI
January 2022 - March 2023 (1 year 3 months)

Senior Software Engineer - Data Mining/Machine Learning at LinkedIn
October 2020 - January 2022 (1 year 4 months)

Part of the Anti-Abuse AI Account Takeover team defending against hacked accounts

• Deployed a model scoring logins in real time to prevent malicious actors from hacking accounts
• Trained multiple iterations of a model that detects hacked accounts across the LinkedIn member base
• Explored various sampling strategies to counteract extreme label skew

Software Engineer - Data Mining/Machine Learning
January 2019 - October 2020 (1 year 10 months)

Intuit
Senior Data Scientist
January 2018 - January 2019 (1 year 1 month)
Mountain View

• Authored production Scala code for company-wide featurization platform that transforms raw data to ML-ready features

• Part of 3 person team that built aggregation capability using Redis to compute features necessary for TurboTax fraud models
• Migrated ETL pipeline for fraud modeling from legacy codebase to AWS as part of initiative to bring fraud detection down from hours to seconds
• Championed application of engineering best practices to tech stack upgrade, such as improved reusability and reduced redundancy in the codebase, CI/CD, consistent code style, and increased documentation
• Experimented with query selection strategies for POC active learning project to decrease false positive rate in fraud detection models

Insight Data Science
Fellow
August 2017 - November 2017 (4 months)
San Francisco Bay Area

• Identified employee relationships as part of consulting project with Cultivate AI to allow client human resource departments to better understand employee interactions and behavior
• Performed natural language processing with nltk and spacy of >12,000 Enron emails
• Clustered and visualized groups of emails using DBSCAN and t-SNE
• Built prototype dashboard to visualize email sentiments and clusters of individuals

Boston Children's Hospital
Graduate Student Researcher
September 2012 - August 2017 (5 years)

• Automated visualization pipeline of neuronal activity and reduced analysis time from hours to seconds
• Developed cell culture model of synapse formation and elimination that allows easier elucidation of molecular mechanisms underlying synapse development
• Performed live imaging of synapse development in cell culture model and demonstrated synapses that form before rivals are more likely to be maintained

Abstracts:

• Koyama R*, Wu Y*, et al. A novel in vitro model of synaptic competition. Cold
Spring Harbor Wiring the Brain, Cold Spring Harbor, NY, March 24-28, 2015.

• Koyama R*, Wu Y*, et al. A novel in vitro model of synaptic competition. 10th Annual Broad Retreat, Boston, MA, November 16-18 2014.

• Koyama R*, Wu Y*, Thompson A, Frouin A, Bialas A, Chen C, Stevens B. Evidence for presynaptic competition-dependent CNS synapse elimination in vitro. Society for Neuroscience, San Diego, CA, November 2013.

The University of Chicago
Undergraduate Researcher
September 2011 - June 2012 (10 months)

• Investigated differences in gene expression of different mouse strains

• Classified >10,000 gene observations in Java

Education

Harvard University
Doctor of Philosophy (PhD), Neuroscience · (2012 - 2017)

University of Chicago
Bachelor's degree, Biology/Biological Sciences, General · (2008 - 2012)