Teng Ma (Aleksandra)

Skills

Languages
Python
R
MATLAB
JavaScript

Libraries
Pandas
NumPy
PyTorch
Tensorflow
Librosa
SciPy

DB & Querying
PostgreSQL
MySQL
DBeaver
Snowflake

Miscellaneous
Writing
Music

Certificates
AWS Certified
Cloud Practitioner

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Education

University of California, Berkeley — Aug 2016 - May 2020
BA, Statistics & BA, Data Science with Emphasis in Economics
Dean's Honors List, College of Letters & Science

Center for Computer Research in Music and Acoustics, Stanford University — Aug 2022
Deep Learning for Music Retrieval, I & II

Professional Experiences

Deloitte & Touche LLP
Consultant, Data Analytics | Client: Global Subscription Streaming Service — Aug 2021–Present
- Developed from scratch a rule-based cost account name normalization pipeline for 190+ productions (15000+ account names) across different genres and production studios using SQL and Python
- Clustered vendor names on 30,000+ ledger transactions using NLP methods: cosine similarity and tf-idf
- Separated independent contractor person names from organizations using Named Entity Recognition
- Built and deployed 6 Tableau dashboards that were well-received by Head of Production Finance and provided biweekly trainings to Production Finance Executives on Tableau navigation and tooling
- Lead a team of 6 off-shore members and report directly to Head of Production Finance

Analyst, Advertising Risk | Client: Global Social Media Company — Jan 2021–Aug 2021
- Created and deployed automation scripts in Google Apps Script that improved spreadsheet efficiency by 60%
- Performed data usage compliance assessments for 200+ third party advertisers and measurement partners

Intern, Software License Compliance Review — Jun 2019–Aug 2019
Intern, Market Research — Jun 2018–Aug 2018
- Wrote the first draft for and produced graphs of the 64-page report on Chinese education landscape

Research & Projects

UC Berkeley Center for Effective Global Action
Research Assistant, Berkeley Initiative for Transparency in the Social Sciences — Aug 2020–Jan 2021
- Built and maintained an R Shiny web app to assist policymakers with understanding research papers on social and fiscal deworming impacts in developing countries under different assumptions
- Deployed the whole project in cloud for transparency after aesthetics enhancement through HTML & CSS
- Wrote tutorials on topics including R Shiny, Git, and mentored undergraduate researchers

Static Music Emotion Recognition on 0.5-second Segments in PyTorch — Aug 2022
Trained a 6-layer neural network in PyTorch on the emotion annotations (arousal and valence) and mel-spectrograms (from raw audio files) of 0.5-second song chorus segments. Rebalanced a subset of the training dataset from the PMEmo dataset. See presentation here.

The Sound of AI Hackathon — Jul 2022
Collected 17 hackathon participants' top 50 tracks from Spotify's API and built a visualization website. Separated out the drum stems of the top 5 highest user score tracks and generated a theme drum track. See presentation here.

Leadership & Teaching

Ascend at Berkeley | Business & Leadership Student Organization
President (Final Semester Position) — Aug 2017–Dec 2019
- Organized and hosted a multi-round tech case competition featuring 8 pioneer judges, including the Apple co-founder Steve Wozniak, and 200+ students participated
- Led the 64-member organization, including overseeing 34 hosted events and handling a budget of $12,000+

GirlUp at Berkeley
Vice President — Aug 2017–Dec 2019
Hosted female professors in STEM talks, raised money for underprivileged girls, and donated feminie products.

InAmerica Education LTD
Teacher — Jun 2016–Jun 2017
Wrote and taught lessons in TOEFL Writing, Speaking, and SAT Grammar and Math