ELIZABETH KELESHIAN AROUTIOUNIAN

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TOOLS

LANGUAGES
Python
JavaScript
Postgresql
Scala

FRONTEND
react
mobx

BACKEND
node
postgres

DATA
pandas
matplotlib
scikit-learn
numpy
nltk
scalding

ML
tensorflow
fasttext
huggingface
BigQuery

CLOUD
GCP
airflow

OPEN-SOURCE WORK

COMMON VOICE (MOZILLA)
MARCH 2021 - PRESENT

Merged PR that adds over 25 MB of Armenian text extracted from wikipedia. Now leading crowdsourcing efforts for data collection and modeling. Onboarded 40 volunteers, accumulated 70 MB of audio.

BIGSCIENCE (MOZILLA)
MARCH 2021 - JULY 2021

Personally identifiable information (PII) management using presidio for entity recognition and Helsinki-NLP for translations.

EXPERIENCE

MACHINE LEARNING ENGINEER
TWITTER | REMOTE | 09/2021 - PRESENT

In the Account Integrity team under the Health pillar of the company, maintaining and building systems that detect fake signups and compromised accounts.

DATA SCIENTIST
WAY2B1, INC. | SAN FRANCISCO | 05/2019 - 01/2021

Built Proprietorial Email Classification Chrome Extension
- Backend in node, flask and frontend in vanilla Javascript
- Model is a 1D ConvNet on word embeddings pretrained with Glove-300D
- Secured app with two layers of authorization using OAuth2.0

Built First Iteration of Development Support for Machine Learning
- Set up centralized logger and configuration for all microservices
- Built CLI's to handle decrypting text and extracting text from images/pdfs

Worked on Miscellaneous Frontend/Backend Features
- Long list rendering using react-virtualized library, speeding up loading by 7x
- Shipped over five major product features within four months

DATA SCIENCE FELLOW
DATA SCIENCE RETREAT | BERLIN | 09/2018 - 12/2018
- Curriculum covered essential DS topics within the engineering, analytics and business dimensions taught by Europe's top industry MLE's and DS's

EDUCATION

UNIVERSITY OF CALIFORNIA, LOS ANGELES
B.S. MATHEMATICS/ECONOMICS, B.A. PHILOSOPHY | GPA 3.65

Relevant coursework includes Gaussian Statistics, Linear Algebra, Probability Theory, Discrete Mathematics, Optimization, Vector Calculus, Differential Equations, Stock Portfolio Risk Analysis (graduate level), Econometrics, Real Analysis

UNIVERSITY OF PENNSYLVANIA
M.S.Ed URBAN EDUCATION | GPA 3.5

Thesis: Investigating the effects from a pilot program providing free financial education to high school students living in an underserved neighborhood.