

# ELIZABETH KELESHIAN



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[/ekeleshian](https://github.com/keleshian)

## TOOLS

### LANGUAGES

Python  
JavaScript  
Postgresql

### FRONTEND

react  
mobx

### DATA

pandas  
matplotlib  
scikit-learn  
numpy  
nltk

### BACKEND

node  
postgres

### ML

tensorflow  
fasttext  
huggingface

## 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 through hosting meet-ups, making social media posts, applying for grants, and reaching out to academic institutions. Onboarded 17 volunteers, received over 10,000 impressions so far.

## AWARDS

Grant recipient from the [Calouste Gulbenkian Foundation](#) for work done with Armenian Common Voice.

## EXPERIENCE

### DATA SCIENTIST

WAY2B1, INC. | SAN FRANCISCO | 05/19 - 01/21

#### Built Proprietary Email Classification Chrome Extension

- Backend in node, flask and frontend in vanilla Javascript
- Offline training for text classification done with keras, preprocessing text with pandas, nltk, BeautifulSoup, scikit-learn
- 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

- Came up with a new way to render long lists in the app using the react-virtualized library, speeding up loading by 7x
- Shipped over five major product features within four months

### DATA SCIENCE FELLOW

DATA SCIENCE RETREAT | BERLIN | 09/18 - 12/18

#### Capstone Project: Recommendation System for Font Styles

Adapted variational autoencoder architecture to extract latent space of 5,000 unique font styles; utilized KNNs to determine recommended font types based on user's selection. Backend done with Google Cloud Functions, frontend done in D3.js

## 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 underserved neighborhoods.