

ANDREW ZHOU

DATA SCIENTIST

SUMMARY

Keen and curious data scientist possessing a diverse skillset that combines technical expertise with verbal intuition. Widely familiar with current techniques in machine learning, with the adaptability to follow and master new technologies as they emerge.

EXPERIENCE

Metis Remote - San Jose, CA
Data Scientist Sep. 2020 - Dec. 2020

Completed the Metis Data Science Bootcamp, an intensive, ACCT-accredited 12-week program emphasizing practical project design and execution. Projects include:

Modeling Fanfiction with Natural Language Processing

- Modeled fan-created works with natural processing techniques, yielding insights on fan engagement with works of media
- Scraped and parsed online fanfiction with Beautiful Soup to assemble text corpora corresponding to various franchises
- Devised an unsupervised topic model for fanfiction based on Latent Dirichlet Allocation using the Gensim library
- Constructed a custom language model by fine-tuning OpenAI's GPT-2 using Hugging Face and PyTorch with GPU computing
- Created a Flask and d3 app to visualize insights (e.g. character interactions) for individual works, recommend new works, and generate text in fanfiction style

Forecasting Bachelor's Degrees from Conditions in Childhood

- Created a classification model to predict whether an individual will receive a bachelor's degree based on data from early childhood
- Assembled a highly intricate set of data from the Panel Study of Income Dynamics, cleaning and merging data from over a dozen individual surveys using PostgreSQL
- Employed cross-validation and hyperparameter optimization to tune and assess a number of different classification models, including Logistic Regression, k-Nearest Neighbors, Random Forests, and AdaBoost
- Developed an app to predict bachelor's degree recipients and to present data insights, using d3 and Flask for custom visualizations

Harvard Beijing Academy Beijing, China
Language Student Jun. 2013 - Aug. 2013

- Completed an intensive and immersive 5th-year Mandarin program
- Analyzed and interpreted important texts, including academic articles, in modern Chinese literature and history
- Conducted a weeklong social study, interviewing residents of the Huangshan mountain range about their lifestyles and livelihoods
- Won first prize in the top heritage division of the Beijing Inter-University Mandarin Speech Contest

Facebook Palo Alto, California
Software Engineering Intern Jun. 2011 - Aug. 2011

- Developed Graph API plugin to integrate Facebook Events with outside sites
- Collaborated with a design intern to craft and refine a vision for the product
- Iterated on the project for twelve weeks to deliver a functioning prototype

CONTACT

✉ zhou.andrew.c@gmail.com

☎ (408) 781-7822

📍 San Jose, CA 95129

in zhouandrewc

🌐 zhouandrewc

EDUCATION

Harvard College
A.B. Computer Science 2017
4.0 GPA in Major
English Minor

SKILLS

PROGRAMMING LANGUAGES

Python

C

C++

JavaScript

SQL

TOOLS & LIBRARIES

Mathematica

LaTeX

Pandas

scikit-learn

TensorFlow

PyTorch

d3.js

Flask

Git

FOREIGN LANGUAGES

Mandarin

Spanish

MACHINE LEARNING

Regression

Clustering & Classification

Natural Language Processing

Neural Networks

Data Visualization

Bayesian Statistics

PAC Learning Theory