

HAIZHOU LI

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EDUCATION

Boston University

2021.8 – Present

MA in Computer Science In progress

Coursework: Web Analytics and Mining, Machine Learning, Data Structure, Analysis of Algorithms

Virginia Polytechnic Institute and State University

2017.8 – 2020.12

BA in Economics (EACS) Major GPA: 3.5/4.0

Coursework: Econometrics, Statistics and Probabilities, Data Visualization and Data Cleaning with Python, Machine Learning in Economics

HONOR

Being named to the College of Science 2020 Fall Dean's List with an overloaded semester.

TECHNICAL SKILLS

Programming:

Python(sklearn, pandas, numpy, BeautifulSoup4, flair), Java, R, SQL, STATA, Matlab.

Machine Learning & Deep Learning:

Principle Component Analysis(PCA), Regularization, Clustering K-means, K Nearest Neighbors, Penalized regression(LASSO, Ridge) Neural Networks, Gradient Descent Algorithm, Text Mining, Embedding Documents, LDA modeling, NLP modelings

WORK/INTER EXPERIENCE

China Tower Xi'an Branch (Available in GitHub)

2021.2 – 2021.7

Application Develop Engineer, Data Analytic group leader

- Normal and Logic regressions and TF-IDF matrix on Python checking whether the electricity cost reasonableness on each station.
- Helped operation and maintenance departments to formulate a strategy on local tower station.
- Outputting an .exe executable file to audit the past 3 years rationality of the electricity cost by using Python, the amount of yearly electricity cost of Xi'an City in 2021 is over 20 billion dollars. All the code available on GitHub.

China Mobile (Shaanxi) Cloud Computing Center

Summer 2019

Data Science and After-sale Technical Problem Fix group attendee

- Assisted the marketing, sales, and after-sale technical support of cloud systems and DDoS defense systems.
- Assisted in the writing after-sale technical support workflow planning, documented workflow manuals Participated in the technical support team in the establishment project of the cloud system setup for the Bureau of Environmental Protection of Xianyang City, Shaanxi Province.

RESEARCH PROJECTS (ALL AVAILABLE IN GITHUB)

Research Assistant: Deep Learning NLP algorithm (Natural Language Processing).

2020.11 - Present

Assistant for Doctor Chen Jing (Boston University) Mentor: Dokyun (DK) Lee (Boston University)

- Deep Learning NLP algorithm, by using Flair, to do the embedding and predictions.
- Trained over 100 LDA Topic Embedding models to Analyze the topics from article news.
- Matching the LDA result to the tweets database by using Fuzzy and BERTopic.

Machine Learning project: Economic regression analysis on How the properties of applicants affect credit card application result.

2020.8 – 2020.12

Individual Researcher Mentor: Ali Habibnia (Virginia Tech)

- With Python, scraped data from Kaggle about the credit card applications data of What factors affect the application result, and do the data cleaning and visualization.
- Designed penalized and logic regressions and PCA algorithms to train the models and conducted the analysis.

Last name categorization in census analysis

2020.8 - 2020.12

Individual Researcher Mentor: *Melinda C. Miller (Virginia Tech)*

- By using Python to Categorized and verified last names of Indian indigenous people from the 1900 US census according to the names' language family origin.
- Designed algorithms and trained models with sklearn that involves about 833,000,000 calculations and successfully conducted the categorization and verification the last names.

Why top 30 universities are top 30? Quantitative analysis on rankings of universities

2019.8 – 2019.12

Team Leader Mentor: *Chris North (Virginia Tech)*

- Cooperated with 3 team members in running the analysis and data visualization and writing the final report.
- Scrapped and cleaned data with BeautifulSoup from the USNEWS website.
- Conducted regression analyses and data visualization to test whether top 30 universities in USNEWS are really top 30 in America according to various indicators.
- Conducted data visualization and the report to summarize performances of the top 30 universities regarding various indicators.