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Skills

- Programming Languages: Python, R, JAVA, C/C++, JavaScript, HTML
- Frameworks & Tools: Scikit-learn, Numpy, Pandas, NLTK, Pytorch, JupyterNotebook, Git, Docker, SOLR, SQL
- Machine Learning Knowledge: Various models and methods for deep learning, regression, dimension reduction, topic modeling, NER, information retrieval, sentiment analysis, Random Forest, RNN, LSTM, Transformers, BERT, etc.

Experience

University of California San Diego | Postdoc Employee

San Diego, CA 09/2017 - Present

THE ROBERTS LAB, Halicioğlu DATA SCIENCE INSTITUTE

- Led independent researches on policy diffusion process in autocracy government using a corpus-based framework
- Applied state-of-the-art NLP models to various research projects (see below)
- Managed multiple research projects and delivered quarterly policy reports to CEOs from different industrial sectors
- Published interactive data visualizations on Chinese society, work was cited by popular media like Politico and NYT
- Developed a data analytics infrastructure that supports interactive topic spotting, tracing, and news searching for researchers

Yale University | Research Scientist

YALE SCHOOL OF PUBLIC HEALTH

New Haven, CT 09/2016 - 08/2017

- Led a five-person team to investigate patients' health-seeking behavior change after using a smart healthcare system.
- Proposed process redesign suggestions that reduce 20% of patients' waiting time
- Was invited to give a talk on this research at the 2017 iHEA world congress, a top conference in health economics

Zhejiang University | Research Assistant

Hangzhou, China 09/2012 - 07/2016

CENTER FOR INFORMATION TECHNOLOGY AND ECONOMY & SOCIETY SYSTEMS

- Designed and conducted research on the sharing economy platform (DiDi) use and service supply influences
- Provided suggestions of driver incentives to the platform and proposals of industrial policy to the government
- Led research groups of 5-10 members to accomplish 3 national-award-winning research projects (including Taobao/Tmall) inter-provincial trade analysis, Weibo use in public service, cloud computing impacts on enterprises)

Selected Projects

Congress Tweets @China

UC San Diego, 2019-2020

- Developed a live tracker that analyzes the aspect-level sentiment towards foreign countries in congressmen's tweets
- Fine-tuned a Transformer for aspect-level sentiment prediction, reached an accuracy of 85%

Name Ethnicity Analysis

UC San Diego, Summer 2020

- Trained a GBM that use first and last name to make the ethnicity prediction among 187 nations
- Increased accuracy of the model by 32% when compared to the based model using the word embeddings

Al Bias Research

UC San Diego, Spring 2020

Created a sentence completion app that let users compare political rhetoric variations between Als trained on different corpuses

CCP Elite Visualization Portal

UC San Diego, Fall 2020

 Developed an interactive dashboard which allow users to visualize some of the key characteristics of roughly 1700 CCP elite who were or are active government officials during 2012 and 2022.

Newspaper Analysis in Real-Time (with San Diego Supercomputer Center)

UC San Diego, 2018-2019

- Developed a news analytics platform that supports interactive topic spotting, tracing and analyzing news articles.
- Reduced the search latency by 80% using text-specific search DB (SOLR) and increased ACU 5 times using Play Framework

Policy Document Infrastructure

UC San Diego, 2017-2018

- Designed and implemented the data pipeline (from data scraping) of 200,000+ policy records and the data storage
- This solution enables 50+ researchers at UC San Diego to perform a fast and efficient search on Chinese policy documents

Hackathon on Chinese Verdict Analysis (with Columbia Law School & Berkeley Law)

UC San Diego, Spring 2019

Design the analysis strategy and pipeline of text data cleaning

Draw hypotheses and tested on the pattern of long duration of the judicial hearing, delivered a high-quality report in 3 days **Sharing Economy Platform Use and Service Supply Influences** Zhejiang University, 2015-2016

Extracted patterns of taxi drivers' client searching and continuous working intention from 29 million trip trajectories.

Education

Zhejiang University

Ph.D., Management Science and Engineering

Hangzhou, China 09/2011 - 06/2016

Thesis: Impacts of Taxi Hailing App on Taxi Drivers'Drivers' behavioral Decision and Operation Performance

Harbin Institute of Technology

Harbin, China

BS WITH HONORS, INFORMATION MANAGEMENT AND INFORMATION SYSTEMS

09/2007 - 06/2011