

Mengyan Wu

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EDUCATION

University of Michigan, Ann Arbor, MI USA Aug 2021 - May 2023 (expected)
Master of Science in Information, focus in Data Science (GPA: 4.0/4.0)

Shanghai Jiao Tong University, Shanghai, China Aug 2018 - Aug 2022 (expected)
Bachelor of Science in Electrical and Computer Engineering (GPA: 3.6/4.0)

- McGill University, Canada, exchange program in Big Data (Jan 2020 - Mar 2020)
- 3+2 program (met bachelor's degree requirement in 3 years to enter graduate school one year earlier)
- Awards: GDP Explorer Scholarship (2021), Student Development Scholarship (2020), Undergraduate Academic Scholarship (2019 & 2020), Wu Jiong Sun Jie Sunshine Scholarship (2019)

WORK EXPERIENCE

Mech-Mind Robotics, Beijing, China *Data Analyst Intern* Jan 2021 - Mar 2021

- Created a data dashboard to visualize the live information of the picking pipeline.
- Trained the image recognition models to improve industrial robots' recognition accuracy to ~97%.
- Segmented and visualized the pipelines' operational data to figure out the factors related to productivity.
- Implemented test scripts to quickly compare the output differences among versions of software.

Shanghai Jiao Tong University, Shanghai, China *Teaching Assistant* Feb - Apr & Sept - Nov 2020

- Held office hour every week. Helped over 50 students with the course material, papers and reports.
- Supervised students' performances in class and in the laboratory.
- Reviewed lab reports (over 200 reports with 10 pages on average in one semester).

SELECTED PROJECTS

Django Database Application Design, Mini Art Wiki Fall 2021

- Implemented a website with Django to store, manage and display the data of 19th century paintings.
- Built log-in features including social login via GitHub. Built comment features and bookmark features.
- Designed the UI with bootstrap and CSS.
- Used AWS EC2 cloud server to host the website.

Exploratory Data Analysis, US School Shooting Analysis Fall 2021

- Cleaned, reorganized and joined 4 raw datasets with numpy and pandas.
- Conducted time series analysis to find out the most likely time of shooting.
- Evaluated the influence of regional unemployment and education rates on shooting and created visualizations in python such as a mosaic plot, a bar plot and a national geographic heat-map.

SQL and Databases, IMDb Top 1000 Movies Analysis Fall 2021

- Decomposed the original excel file of IMDb top 1000 movies into 3 normalized csv datasets with pandas.
- Created a MySQL database via DataGrip to manage the normalized data.
- Ran 10+ SQL queries to derive meaningful sub-data of patterns of high-rating movies.

Statistical Computing, Covid-19 Analysis Summer 2021

- Evaluated the relationship between the strictness of government policy and the extent of closeness in Sweden and India using stratified & parametric bootstrap methods in R.
- Conducted linear regression and hypothesis test to evaluate the relationship between the case growth rate and the strictness of government policy.

TECHNICAL SKILLS

- Data Analysis: Python (numpy, pandas, seaborn, matplotlib), SQL, R, Spark, Hadoop, Tableau
- Web Design: HTML/CSS, JavaScript, Django
- Coding: Python (experience with machine learning & web scraping), C++, MATLAB