Michelle (Yijun) LIU

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EDUCATIONS

UNIVERSITY OF CALIFORNIA, SAN DIEGO | B.S in Data Science | GPA: 3.86 / 4.0 | Honor: Cum Laude (~ Top 14%)   09/2017 - 06/2021

UNIVERSITY OF CALIFORNIA, BERKELEY | M.Eng, Industrial Engineering & Operations Research   08/2021 - Present

EXPERIENCES

Live Stream Strategy and Operation Intern | ByteDance Ltd.   **07/2020-08/2020 | Beijing, China**

- Insisted mentors in evaluating strategic feasibility by exporting historical streamers-related data using **SQL** and doing **EDA** analysis using **Python**.
- Surveyed streamers whose revenues declined throughout the past week in understanding their needs; Did word-frequency analysis by using Python **Jieba** Package, and obtained the most frequent words from surveys;
- Followed up **A/B testing** of different strategies, and communicated with the R&D Department in updating and deploying strategic experiment.

Data Analyst Intern | Mango TV   **07/2019-09/2019 | Hunan, China**

- Insisted Operator Network Center in analyzing behavior-related data of users who unsubscribed membership in June; **Defining metrics** that would contribute to our analysis;
- Exported data using **SQL**, cleaned messy data and explored abnormality through **EDA** using Python, and trained an unsupervised clustering machine learning model (**KMeans**) with **scikit-learn** package for discovering latent features.
- Presented weekly and monthly reports about the subscription information by visualizing through **Tableau** and **PowerPoint**; Created reports templates for future works;

Data Science Tutor | Halıcıoğlu Data Science Institute, UC San Diego   **09/2019 - 03/2021 | La Jolla, CA**

- Held weekly office hours to help students debug, and better understand class concepts; Tutored Python basics (NumPy, Pandas, Regex...), Machine Learning concepts, Data Visualization, HTML, etc.;
- Created Python assignments using **Jupyter Notebook** and **Git**; Insisted professors in creating questions for exams, proctoring and grading exams;

PROJECTS

Battery Lifetime Prediction   **09/2019 - 03/2020 | La Jolla, CA**

- A capstone project collaborated with Intel for my undergraduate program; This project aims on investigating the features that affect the estimated remaining time of personal computer's battery, and finally building a **Gradient Boosting Regressor** for predicting battery's remaining minutes.
- Collected Data by using **Microsoft API** in **C** scripts; Preprocessed raw data and did EDA by using **Pandas** from **Python**;
- Insisted partners on model training and **hypothesis testing** part;
- Created visual presentation page by using **Javascripts, CSS, and HTML**.

Reconstructing Superheroes based on Frida Kahlo's art   **04/2020 - 05/2020 | La Jolla, CA**

- This project created Superheroes with Frida Kahlo's art styles, and this work is based on **DCGAN** model;
- **Scraped** Frida Kahlo's art from Wikiart by using **BeautifulSoup** and Request based on Python script.

2015 U.S. Flight Delay Forecast Project   **10/2019 - 11/2019 | La Jolla, CA**

- **Fearure engineeringed** on 2015 U.S. flights data, and found key elements that contributed to flights delays; Utilized **Tableau** to get heatmap of flights' delays information for each airport; Trained different models and found **Decision Tree** was the optimal one, with the highest accuracy rate of 62%; Was selected as the outstanding project representative of the quarter.

LANGUAGES & SKILLS

LANGUAGES: Java / Python / HTML / JavaScript /CSS

COMPUTER SKILLS: SQL / MS Offices / PostgreSQL / Jupyter Notebook/ IntelliJ / PyCharm/ Eclipse/ Visual Studio Code