Yiqi Xiong

Los Angeles, CA | LinkedIn | GitHub | 681-578-6177 | yiqixion@usc.edu

EDUCATION

University of Southern California   **Los Angeles, CA**
M.S. in Applied Data Science (GPA: 3.92)   *Graduation Date: May 2023*

Pennsylvania State University   **University Park, PA**
B.S. in Mathematics | Statistics and Geography Minors (GPA: 3.91)   *Graduation Date: Dec 2020*

TECHNICAL SKILLS

Programming: Python (Pandas, scikit-learn, Keras, PyTorch, PySpark), R (caret, shiny), MATLAB

Database: MySQL, MongoDB

Data Visualization: Tableau, Power BI, Matplotlib, ggplot2

Other Skills: ArcGIS Pro, ArcPy, Hadoop, Amazon AWS, Google Firebase, HTML

WORK EXPERIENCE

AVIC Trust CO., LTD.   **Nanchang, China**
Operations Intern   *Feb - May 2021*
- Developed an automatic information extraction UI using python, which increased work efficiency by 40%
- Ensured 100% data accuracy on client statements and daily system data using Excel
- Formulated over 90 trust fund product information reports including issuance, alteration, and termination
- Collaborated with operations managers to confirm daily purchase and redemption

RESEARCH EXPERIENCE

Virtual Reality in Gaming   **University Park, PA**
Undergraduate Research Assistant   *Aug - Dec 2020*
- Created questionnaire template using Amazon Mturk
- Applied statistical analysis techniques (Hypothesis testing, Linear regression) to 200+ records in R
- Analytical results of research were included in conference paper

Traffic Speed Prediction in NYC   **University Park, PA**
Undergraduate Independent Project   *Jan - May 2020*
- Collected 10 million+ real-time NYC traffic data and visualized 100+ geospatial sensors
- Achieved as low as 3% of mean absolute percentage forecasting error using spatio-temporal deep learning model
- Presented work at PSU Department of Geography

PROJECT EXPERIENCE

Stock Price Prediction Web Application
- Extracted U.S. stock streaming data in 2021 and built machine learning models with Spark Mllib and scikit-learn
- Managed data and stored machine models in cloud services for repeated queries reducing perdition time by 90%
- Partnered with teammates to design a web interface with Flask to generate prediction reports for shareholders

Yelp Restaurant Recommendation System
- Performed a collaborative filtering method on Yelp data using XGBoost
- Generated a recommendation engine for users' rating on target restaurant
- Improved accuracy by 10% of baseline model using feature selection and hyperparameter tuning

2022 Southern California AthenaHacks Competition
- Devised a full stack application to find real-time vacant meter parking spots in LA using python and Streamlit
- Processed and flittered 30k+ real-time data records, eliminating search time to 2 seconds
- Utilized Google Map API for geocoding and visualized outputs on map based on customized selection
- Awarded the Best Hack in Finance