YUETING (ALEX) ZHU

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EDUCATION

University of Southern California — Los Angeles, CA
Master of Science in Analytics — May 2023-May 2025

Worcester Polytechnic Institute — Worcester, MA
Bachelor of Science Data Science & Computer Science — May 2019-May 2023

- Major GPA: 3.84/4.0

SKILLS

Programming: Python (TensorFlow, PyTorch, Pandas, scikit-learn, PySpark), SQL, R, Java, JS, C

- Web/App Development: React, Node.js, Express, Node, GoDaddy, Jira, GitHub
- Data Visualization: Tableau, Power BI, Microsoft Excel
- Database/Cloud: AWS s3, Mongo DB, Databricks, Snowflake, Apache Hadoop/Spark
- Languages: Chinese (Native), English (Professional), Japanese (Advance)

PROFESSIONAL EXPERIENCE

GBCS Group/SkyIT — Los Angeles, CA
Data Analyst Intern — Sep 2023-Present

- Perform data cleaning on Excel sheeting on fleet dataset, using python to code automatic solutions for converting information in Excel sheets to cleaned CSV files
- Implemented automated Python scripting to extract, transform, clean, and preprocess raw data from the fleet dataset, reducing manual processing time and ensuring data accuracy
- Cross referencing and standardizing data from different sources to ensure consistency and accuracy in the combined fleet dataset

Solix Technologies Inc. — Santa Clara, CA
Data Analytics Intern — July 2023-August 2023

- Conducted extensive analytics consultation projects, involving data cleaning, profit and loss reporting, data visualization, deep learning model building for forecasting, breakeven price analysis, and providing business decisions/consultation, including sale cycle analysis
- Acquired a comprehensive understanding of event logs, business process modeling, bottleneck assessment, deviation analysis, and overcoming bottlenecks for customers in various sectors, including hospitals

ACADEMIC PROJECTS

Capstone Project: Price Analysis from Multiple Listing Service Data — Worcester, MA
Programming Lead — October 2022-December 2022

- Self-studied Databricks based on Apache Spark and leverage it to operate datasets and analyze relationship between hurricanes and housing prices
- Utilized time series statistical models (X-13ARIMA and Seasonal Trend Decomposition) to predict future housing prices in areas in the USA
- Created Power BI dashboards using datasets from large multiple listing service data (over 100G) and built time series models to predict future housing prices, providing visualization and effective communication of results from analysis

Deep Learning Group Project — Worcester, MA
Member — January 2022-May 2022

- Coded neural networks including Deep Q Networks (DQN), the Actor-Critic Method (A2C), and the NeuroEvolution of Augmenting Topology (NEAT) to analyze and compare their performance under different environment using TensorFlow
- Assessed performance of each model in different environments/games (Super Mario Bros, Mountain Cart, BreakOut) using reinforcement learning, and a comparative analysis was conducted to identify each model's strengths and weaknesses

Machine Learning Group Project — Worcester, MA
Member — August 2021-October 2021

- Utilized various models including linear model, multi-feature model, logistic regression model, support vector classifier (SVC), Lasso/Ridge, LDA/QDA, and tree-based models (Random Forest, Decision Trees) to predict housing prices using scikit-learn
- Assessed performance of each model and conducted a comparison based on parameter R-square

Data Science Group Project — Worcester, MA
Member — January 2021-March 2021

- Employed Python and the Twitter API to collect a substantial dataset of approximately 100 thousand rows of textual data from the Twitter platform
- Utilized Natural Language Processing(NLP) to analyze tweets and quantify number of individuals expressing positive sentiment towards mentioned games, enabling a comprehensive understanding of user opinions and preferences