Josh Zhu

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SUMMARY

Academic professional with a background in Finance, Mathematics, and Economics pivoting into Data Science. Recently obtained a Data Science Certificate, completing two end-to-end data science projects and growing data skill set in **Python**, **Pandas**, **data wrangling**, **data visualization**, and **machine learning**. Experienced in working with **big data** and performing **statistical data analysis** and time series analysis to provide insight into nature's fundamental building blocks. Passionate about using data to observe daily trends and activities in order to help companies and organizations make informed decisions about their business.

TECHNICAL SKILLS

Languages: Python (Pandas, Scikit-learn, NumPy, Requests)
Predictive Modeling: Linear/Logistic Regression, Classification, Clustering, Decision Tree, Random Forest
Machine Learning: Deep Learning, Neural Networks, Image Processing, NLP
Probability and Statistics: Hypothesis Testing, A/B Testing Databases: SQL (MySQL, SQLite, Complex Joins, Nested Queries) Data Visualization: Jupyter, Matplotlib, Seaborn
Data Science Methods: Mining, Wrangling, Cleaning, Analysis, Visualization, Storytelling

EDUCATION

Springboard, Remote   **Sept 2021**
Data Science Certification

New York University   **May 2017**
Bachelor's of Science in Finance, Joint Minor in Comp Sci and Math

EXPERIENCE

Springboard   **November 2020 – Present**
Data Science Fellow
Instacart E-Commerce Prediction
- Developed predictive models using various Machine Learning algorithms in regression and classification including tuning hyperparameters on selective models, with 95% average accuracy in model performance.
- Performed **comparative studies** to analyze how featured importance impacts the results of the price and reorder likelihood for individual transactions of customers.

Big Mountain Ski Resort Business Analysis
- Utilized **Linear Regression** and **Random Forest** algorithms in **Python** (scikit-learn package) to identify the optimal ticket price and opportunities to generate an additional $1.7 M revenue next year.
- Performed a full business analysis including data cleaning, exploration, visualization in **Python** including **NumPy**, **Pandas**, **Seaborn**, and various libraries.
- Developed business strategies that increase revenue by $3.5 M, which shows a 102% project return-on-investment.

Hitachi   **May 2019 - June 2020**
Corporate Finance Analyst
- Partnered with Hitachi's senior executives and their teams to optimize financial planning, ensuring budget alignment with strategic corporate objectives and annual operating plan
- Drafted monthly summary communications and presented consolidated financials to management which offered critical insights to drive business decisions, identifying risks and opportunities within the budget
- Managed annual operating expenses of $160M for 8 BU's in the product organization (including budget forecasting and headcount planning), served as primary finance approver for all hiring requisitions and PRs