Andy Chiv

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EDUCATION

California Polytechnic State University ***San Luis Obispo, CA***

M.S. in Business Analytics | *GPA: 3.50 / 4.0* *Expected Graduation: June 2023*

- ***Coursework*:** Core Statistics, Data Mining, Data Management, Marketing Analytics, Machine Learning, Prescriptive Analytics, AWS Cloud Computing, Econometrics, Financial Time Series

B.S. in Applied Mathematics, Minor: Statistics | *GPA: 3.67 / 4.0* *June 2022*

TECHNICAL SKILLS

Programming:	Python, R Programming, SQL, NoSQL, MATLAB
Analytics:	AWS, Data Analysis, Data Visualization, ETL, Predictive Analytics, Engine Recommendations
Tools:	MySQL, Azure Data Studio, Tableau, MS Office, Jupyter Notebook

WORK EXPERIENCE

Analytics Consultant, *Engie North America Inc.* *January 2023 – Present* | ***San Luis Obispo, CA***

- Developing and implementing analytics solutions for Engie in optimizing the wholesale electricity market for 14 U.S. states and ensuring the efficiency of green energy usages for **65** million people.
- Working with 3 graduate students and communicating weekly with **stakeholders** to identify business needs and align solution roadmap to strategic goals.
- Using programming skills such as **Python and R** to pull and sort large amounts of data and completing data wrangling and analytics to suggest business process changes.

Analytics Consultant, *Cal Poly Digital Transformation Hub* *March 2022 – June 2022* | ***San Luis Obispo, CA***

- Led production of **classification models** in **Python** to predict a grocery category on a 3000+ dataset through cross-validation, successfully classifying comestibles into **33** categories with an accuracy rate of **75%.**
- Performed **exploratory data analysis** by preprocessing raw data and visualizing distributions with **Seaborn** to summarize pricing trends and identify directions for stakeholders.
- Formulated a business matrix by conducting statistical analysis to compare product price among **3** large retail companies to provide data-driven insights.

Frost Research Intern, *Department of Mathematics (Remote)* *June 2021 – August 2021* | ***San Luis Obispo, CA***

- Researched on computation of matter waves in atomic physics by approximating the numerical solutions of Nonlinear Differential Equations in **MATLAB**.
- Worked closely with the professor and team members to analyze and monitor simulation results by reviewing 10+ specific cases to find the optimal solution of the equation.

Frost Research Intern, *Department of Mathematics (Remote)* *June 2020 – August 2020* | ***San Luis Obispo, CA***

- Proposed a **visualization teaching strategy** to promote students' understanding of **calculus concepts** by conducting 3 interviews with high school students, resulting in **15-20%** improvement in scores.
- Created **an extensive worksheet** with 10+ selected mathematical questions in **LaTex** to assess students' performance, revealing an engagement score of **100%**.

PROJECTS

SQL Food Pop-up Business Database | *Class Project (Skills: SQL, Database Management)* | View Project

- Collaborated with 4 graduate students to design a working database in **MySQL** for local food pop-up businesses by building relational schema that stores customer, order, payment methods and delivery data.
- Wrote queries using **Joins, Subqueries and Nested Queries** in **MySQL** to obtain data from multiple tables to develop business recommendations for high customer engagement marketing campaigns.

Chipotle Customer Segmentation | *Class Project (Skills: R Programming, Statistical Analysis)* | View Project

- Created **K-Means clustering models** for segmenting Chipotle customers to find the optimal marketing mix, resulting in 3 targeting groups for high profitability in sales.
- Conducted comprehensive **mean analyses** on approximately recorded 400 survey data points and provided product recommendations to increase customers and profits.