



Katelyn Villamin

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EDUCATION

University of California, San Diego,

Sep 2021 – Jun 2025 | La Jolla, CA

B.A. Economics, Minor in Data Science

Relevant Coursework: Introduction to Data Visualization, Introduction to Data Mining, Introduction to Artificial Intelligence: Probabilistic Reasoning and Decision-Making, Econometrics

PROJECTS

Mall Customer Segmentation Analysis 🔗

Jun 2025 – Jun 2025

- Developed clustering model (K-Means, Hierarchical) to group mall customers by spending behavior; visualized insights in Tableau to inform targeted marketing.

Gamified Unplugged,

Feb 2025 – Mar 2025

How Gamifying Surveys Reduces Cognitive Load 🔗

- Analyzed biometric data (ECG, brain waves) across two user groups; ranked Top 10% for data visualization & clarity.

Airbnb Price Prediction (Data Mining Class Challenge) 🔗

Feb 2025 – Feb 2025

- Built a pipeline to predict Airbnb prices in NYC; improved RMSE by 21% using engineered features and ensemble models. Ranked 7/109.

SKILLS

Programming Languages: Python (Pandas, Scikit-learn, Seaborn), SQL, Java, JavaScript (D3.js), R

Tools & Technologies: Tableau, Git, Jupyter, Excel, HTML/CSS

Concepts: EDA, Data Cleaning, Visualization, Machine Learning, Clustering, Predictive Modeling

Languages: English, Filipino, Chinese, Korean

PROFESSIONAL EXPERIENCE

Supplemental Instruction Leader, *University of California,*

Sep 2022 – Aug 2024

San Diego – Academic Achievement Hub

- Tutored 20+ students weekly in Econ/Calculus; improved performance by 15%
- Designed structured learning plans and collaborated with faculty for curriculum alignment

Triton Community Programming Leader, *University of*

Sep 2022 – Jun 2024

California, San Diego – Family and Parent Programs

- Coordinated 10+ campus events; improved satisfaction and future attendance
- Designed thematic activities and streamlined communication with attendees