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; 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
- Improved RMSE by 21% in price prediction; ranked 7/109 via engineered features and ensemble models.

SKILLS

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