

Jasmine Kristine Cabrera

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EDUCATION

California Polytechnic State University, San Luis Obispo

M.S. Statistics — June 2026

B.S. Statistics, Minor in Data Science — June 2025 | GPA: 3.57

PROFESSIONAL EXPERIENCE

Data Science Consultant — *General Emancipation Network*

Tools: Python, MoondreamAI, Google Gemini

Jan 2025 – Present

Building a **hierarchical ML model** for automated clothing attribute recognition to aid missing child identification.

- Improved logo detection accuracy from **60.61% to 70.1%** and overall model accuracy from **70.5% to 73.87%**
- Worked in a cross-functional team to automate the image labeling workflows and structure training data in JSON
- Presented model progress to clients and professors; selected to present findings at **SDSS 2025**

Data Analytics Intern — *Southern California Edison*

Tools: SAS, Excel, SAP

Jun 2024 – Sept 2024

Automated EPA emissions reporting and validated environmental compliance for SF6-insulated grid infrastructure.

- Reduced EPA report generation time from **1-2 days to 10 minutes** and eliminating manual errors
 - Queried and validated **SAP data**, increasing reporting accuracy and enhancing operational efficiency
 - Developed **rule-based data validation logic** to identify equipment inconsistencies and improve asset integrity tracking
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PROJECTS

Reddit r/place Analysis — *Python, SQL, DuckDB, Polars, Pandas, Matplotlib*

Jan 2025 – Mar 2025

Analyzed **160M+** Reddit r/place pixel placements to uncover community trends and user behavior patterns.

- Reduced memory usage by **93%** to optimize I/O speed and improve performance
- Analyzed pixel churn, placement frequency, and color trends using distributed **SQL queries**
- Cross-referenced insights with Reddit forum discussions, visualizing spatial-temporal patterns with **Matplotlib**

Kaggle Home Credit Loan Approval Model — *Python, Scikit-learn, Matplotlib*

Nov 2024

Built predictive ML models for loan approvals using fairness-aware validation techniques.

- Logistic Regression achieved **69.5% accuracy**, **69.9% recall**, and **0.761 ROC-AUC**
- Outperformed SVM and LDA on recall-precision tradeoffs
- Compared random, stratified, and income-based splits to assess model robustness and reduce bias

J&M Products Dashboard Optimization — *Microsoft PowerBI*

Oct 2023 – Mar 2024

Optimized interactive dual dashboards to improve **KPI tracking** and inform business decisions.

- Created **real-time PowerBI dashboards** to visualize key metrics across product lines
 - Aligned visual metrics with business objectives, driving decision-making efficiency across departments
 - Co-authored PowerBI **documentation** to guide users on dashboard features and increase data literacy for nontechnical stakeholders
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TECHNICAL SKILLS

Languages & Analysis: Python, SQL, R, SAS, JMP

Libraries & Tools: Scikit-learn, Pandas, NumPy, Polars, DuckDB

Visualization & Reporting: Power BI, Tableau