

MANUELA LOZANO

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EDUCATION

University of California, Los Angeles (UCLA)

Los Angeles, California

B.A. Economics and B.S. Statistics & Data Science

Sept 2022 - Jun 2026

Academics: GPA: 3.5/4.0

Affiliations: Engineers Without Borders, Latin American Student Organization, UCLA Residential Life (Resident Assistant)

Relevant Coursework: Machine Learning, Statistical Consulting, Forecasting, Computation and Optimization, Agentic AI

Honors: ALD|PES Honor Society, National Honor Society, Dean's List

WORK EXPERIENCE

Amazon Web Services (AWS) – Cloud Computing

Seattle, Washington

Business Intelligence Engineer Intern

Jun 2025 - Sep 2025

- Built an end-to-end forecasting pipeline using Python and SQL to ingest operational data, train predictive models, and generate dashboards for the security team planning, achieving 80% forecasting accuracy
- Developed and validated 5+ predictive forecasting models using historical operational data to improve security resource planning accuracy
- Designed automated ETL pipelines and QuickSight dashboards for a cross-functional security team, reducing manual reporting overhead by 20% and accelerating executive decision-making.

Insights Investment – FinTech StartUp

Bogotá, Colombia

Data Analyst → Data Scientist

Jun 2024 - Apr 2026

- Built an LLM-powered investment onboarding AI agent using retrieval-augmented generation (RAG) and vector search, reducing onboarding response time by 2 days and improving customer engagement workflows
- Developed 5+ predictive models to forecast customer growth, funding behavior, and investment activity trends, supporting product and marketing strategy decisions
- Designed conversational AI and semantic retrieval pipelines integrating financial documents and statistical analyses in Python and R, contributing to a 20% increase in platform engagement

IDT Corporation – Telecommunications

Newark, New Jersey

Data Analyst Intern

Jun 2024 - Aug 2024

- Built predictive analytics models on telecom usage and transaction data to identify customer behavior trends and improve operational reporting accuracy by 20%
- Analyzed and transformed 1M+ transaction records using SQL and Python, developing preprocessing workflows that reduced data inconsistencies and improved data usability for analytics teams
- Created Tableau dashboards to visualize model outputs and key business metrics, enabling stakeholders to monitor performance trends and support data-driven decision-making

PROJECTS

Clicks Through Rate Prediction – UCLA

Fall 2025

- Engineered behavioral features from 6M+ ad interactions using CatBoost and logistic regression; optimized class imbalance via CTGAN to improve ROC-AUC by 14% (0.71 to 0.81)
- Evaluated model performance using large-scale advertising data and synthetic minority augmentation techniques to improve rare click-event prediction

UFO Sighting NLP & Statistical Modeling – UCLA

Fall 2025

- Analyzed 140K+ UFO sighting reports using NLP, sentiment analysis, and count-based statistical modeling to identify geographic and sociopolitical reporting patterns
- Developed Poisson regression and NLP pipelines to evaluate population-adjusted reporting behavior across geographic and political groups

LEADERSHIP & INVOLVEMENT

Latin American Student Organization – UCLA Latinx Club

Los Angeles, California

President

Sep 2025 - Present

- Lead cultural, professional, and networking initiatives serving 100+ members, increasing student engagement and campus outreach participation by 25%

Engineers Without Borders – Engineering

Los Angeles, California

Internal Lead

Dec 2023 - Sep 2024

- Coordinated operations and engagement initiatives for 40+ members, supporting engineering-focused community service projects and organizational events

ADDITIONAL INFORMATION

Skills: Programming (Python, R, SQL), Machine Learning & Statistics (Regression, Classification, NLP, Forecasting, Feature Engineering, Time Series Analysis), Libraries & Frameworks (Pandas, NumPy, Scikit-learn, CatBoost, tidyverse), Cloud & Visualization (AWS, QuickSight, Tableau, Redash), AI & LLMs (Retrieval-Augmented Generation (RAG), Prompt Engineering, Agentic AI), Tools (GitHub, Jupyter Notebook)

Interests: Soccer Analytics, Latin American Dance, Adventure Camps, Animal Care Volunteering, Art History, Musical Theater

Languages: English, Spanish