

# Aiesha Lanba

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## Education

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**University of California, Berkeley**

*GPA: 3.6/4.0 — Bachelor of Arts in Data Science*

**Expected Graduation: May 2027**

*Berkeley, CA*

**Relevant Coursework:** Foundations of Data Science, Principles and Techniques of Data Science, Concepts of Probability, Data Structures, Linear Algebra, Structure and Interpretations of Computer Programs, Introduction to Machine Learning, Principles of Engineering Economics

## Experience

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**Data Analyst/AI Intern**

*Wipro*

**June 2025 – August 2025**

*Remote*

- Analyzed six AI deployment models to evaluate cost-per-task economics using advanced Excel-based simulations, statistical sensitivity analysis, and datasets from AWS to quantify efficiency trade-offs.
- Identified coordination overhead, compute utilization, and scaling inefficiencies as primary cost drivers, raising per-task expenses by up to 35%; impacting enterprise-level operational performance metrics.
- Proposed a data-driven governance model incorporating adaptive scaling, auditability metrics, and cost-to-value gates to improve transparency, streamline resource allocation, and prevent recurring inefficiencies.

## Projects

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**Spam & Ham Email Classification — Python**

**November 2025**

- Built logistic-regression classifier on 8,000+ emails using engineered text features, achieving 92% accuracy.
- Evaluated model precision, recall, and ROC performance to reduce false positives by refining thresholds.
- Applied cross-validation and hyperparameter tuning to reduce overfitting and improve validation accuracy.

**Predicting Housing Prices in Cook County — Python**

**October 2025**

- Modeled 250k+ property records with engineered features, improving RMSE performance by over 50%.
- Visualized demographic and geographic valuation trends, revealing significant disparities between groups.
- Analyzed feature weights and assumptions to quantify bias and strengthen fairness evaluation metrics.

**Stock Price Prediction Model — Python**

**May 2025**

- Built full workflow predicting daily stock price movements using time-series indicators and model tuning.
- Produced correlation and feature-importance visuals clarifying predictive drivers and model behavior.
- Compared classifiers using precision, recall, and F1, improving prediction accuracy by 12% over baseline.

**World Generation Game — Java**

**April 2025**

- Developed world-generation engine using randomized terrain algorithms and data-structure-based logic.
- Built scalable state and terrain generation system for reproducible environments across user-defined seeds.
- Bench-marked map-size performance, improving generation speed through algorithmic optimization.

## Technical Skills

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**Programming & Query Languages:** Python (Pandas, NumPy, Matplotlib, Seaborn), SQL

**Data Analysis & Experimentation:** Exploratory Data Analysis (EDA), A/B Testing, Hypothesis Testing, Experimental Design, Metrics Definition, Data Wrangling

**Statistics & Machine Learning:** Probability & Statistical Inference, Regression, Classification, Feature Engineering, Model Evaluation, Neural Networks, Forecasting

**Tools & Collaboration:** Git, Jupyter Notebook, VS Code, Excel