

# Kalkidan Berhe Gebrekirstos

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## EDUCATION

### University of California, San Diego

B.S. Data Science, Minor in Economics

La Jolla, CA

Expected June 2026

## EXPERIENCE

### Lead Project Manager, Sports Analytics

Eclipse Analytics

Apr 2025 – Present

San Diego, CA

- Lead two analytics teams (6–8 analysts) conducting statistical modeling for basketball and football.
- Analyze UCSD Women's Basketball practice data using visual tracking and spatial metrics across multiple sessions.
- Design player heat maps and performance visualizations for shooting efficiency, movement patterns, and defensive impact.
- Oversee data quality, project timelines, and mentor analysts on modeling and visualization best practices.

### Data Analytics Extern

Beats by Dre (Externship Program)

Jul 2025 – Oct 2025

Remote

- Performed quantitative and qualitative analysis on consumer and social media data using Python.
- Applied NLP-based sentiment analysis to identify trends in product perception and user feedback.
- Conducted competitor benchmarking to support product positioning and strategic recommendations.

### Coding Camp Organizer & Program Analytics

Oct 2024 – Mar 2025

Kikclub (Sponsored by Tri Indonesia)

Remote

- Analyzed engagement and performance data from multi-week virtual coding camps spanning multiple cohorts.
- Designed feedback surveys and metrics to iteratively improve curriculum effectiveness and retention.
- Collaborated with an international team to refine data-driven instructional content.

### Dream STEM Lead

Feb 2022 – Jun 2024

UCodeGirl

Remote

- Built and maintained a resource platform supporting immigrants entering the U.S. technology sector.
- Improved accessibility and usability through analytics-informed UI/UX enhancements.

## PROJECTS

### Mortgage Inequality Explorer | Python, pandas, geopandas, Streamlit, Census API

2025

- Built an interactive dashboard analyzing mortgage approval disparities across 50+ U.S. states and counties.
- Cleaned, merged, and normalized 100k+ HMDA and Census records to compute demographic approval rate comparisons.
- Enabled geospatial exploration of structural inequality through interactive maps and visual summaries.

### NBA All-Star Selection Prediction | Python, NumPy, pandas, scikit-learn, Plotly

2025

- Developed a supervised ML pipeline to predict NBA All-Star selections using ~15,000 player-seasons.
- Implemented logistic regression from scratch with L2 regularization and mini-batch gradient descent.
- Achieved ROC-AUC of 0.99 and Average Precision of 0.86, outperforming naive and heuristic baselines.

### Sports Betting Behavior Analysis | LiveSports API, Python

2024

- Analyzed real-time odds movement across hundreds of EPL and NFL games to assess betting behavior shifts.
- Applied EDA, regression analysis, and A/B-style comparisons to evaluate risk and payout outcomes.

## TECHNICAL SKILLS

**Programming Languages:** Python, SQL (Postgres), Java, R, JavaScript, HTML/CSS, C/C++, Stata

**Statistics & ML:** Exploratory Data Analysis (EDA), Statistical Inference, Linear & Logistic Regression, Hypothesis Testing, Confidence Intervals, Supervised Learning, Recommender Systems, NLP, A/B Testing

**Data Visualization:** Matplotlib, Plotly, D3.js, Tableau, Power BI, Geospatial Visualization (geopandas)

**Data Systems & Engineering:** Relational Algebra, SQL Analytics, Feature Engineering, Scalable Data Processing (Spark/MapReduce concepts), Data Pipelines

**Web & Dashboards:** HTML, CSS, JavaScript, Streamlit, GitHub Pages

**Tools & Platforms:** Git, Docker, Google Cloud Platform (GCP), AWS (course exposure), Jupyter Notebook, VS Code