

# Aidan Nguyen

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## EDUCATION

### University of California, Los Angeles (UCLA)

B.S. Statistics and Data Science, Minor in Data Engineering

Expected June 2026

GPA: 3.97

**Activities:** Statistics Club (Social Chair), Data Resolutions (Consulting Project Lead)

## EXPERIENCE

### Data Analyst Intern

September 2024 - Present

*Improper Etiquette*

- Modeled PETE cost structure using market research, public data, & regression analysis for 50% profit margin targets
- Analyzed 15+ production variables to identify break-even points and optimal sales targets for hats in Los Angeles
- Created data visualizations and detailed Excel reports with 10+ research papers sourced to support findings
- Presented regression-based insights on cost modeling and profit optimization to guide strategic client decisions

### Machine Learning Research Assistant

January 2024 – Present

*Signaling Systems Lab*

- Secured grant funding by visualizing cluster t-SNE plots that verified data from ongoing research initiatives
- Analyzed ~6M rows of Single Cell RNA sequencing data with R, caret, & Seurat to classify bone marrow stroma cells
- Deployed supervised learning models, including SVMs and coefficient classifiers, to evaluate data quality & scalability
- Improved model accuracy by 15% by fine-tuning and cross-validating SVM hyperparameters with R and e1071

### Data Science Intern

June 2024 – September 2024

*Dune Road Capital*

- Enhanced financial analysis using SQL queries for 10M+ rows of exchange-traded fund (ETF) performance metrics
- Predicted returns for 10+ ETFs through Python time-series analysis, aiding portfolio strategy recommendations
- Produced data visualizations with Tableau to present key ETF metrics to prospective investors and team members

## PROJECTS

### DataFest at UCLA | R, dplyr, ggplot2, caret, tidyverse

- Achieved finalist out of 400+ participants in a 48-hour data hackathon, focused on analyzing complex datasets
- Analyzed 7 spreadsheets with 100K+ rows of user and site interaction data to uncover user engagement trends
- Identified key patterns in 1000+ users' behavior utilizing R and tidyverse to clean, transform, and merge datasets
- Presented visualizations recommending data-driven improvements for greater engagement & educational outcomes

### Book Recommendation Web Application | Python, pandas, MongoDB, transformers, BERT, Google Books API

- Developed a web app connecting 100+ readers, fostering community, and promoting youth engagement with books
- Built a custom LLM-powered recommendation engine that increased personalized book suggestions by 75%
- Managed user data for 10,000+ libraries, interactions, and connections with MongoDB for 99.9% uptime
- Enhanced backend with Google Book API and RESTful API integration, boosting content delivery speed by 25%

### YouTube Success Metrics Analysis | PyTorch, transformers, pandas, numpy, googleapiclient, nltk, matplotlib

- Analyzed 600,000+ YouTube comments using a fine-tuned DistilBERT model for multilingual sentiment analysis
- Created a gradient boosting regressor and predictive models to assess how 1000+ titles & thumbnails impact views
- Implemented OpenCV to implement face detection in video thumbnails, correlating findings with viewership metrics

Programming Languages: Python (pandas, numpy, scikit-learn, plotly, flask, tensorflow), Java, C++, JavaScript, SQL, R

Tools: Git, GitHub, Tableau, AWS, Excel, MongoDB, Power BI

Interests: Volleyball, Hiking, Catan, Poker, Graphic Design, Cooking