

# AHMAD KHAN

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## Education

### University of California, Los Angeles

*Bachelor of Science in Statistics and Data Science, Computational Biology*

**Sep. 2022 – June 2026**

*Los Angeles, CA*

## Relevant Coursework

C++ Programming, Data Structures, Statistics for Life Sciences, Computational Biology Research, Probability Theory, R Programming, Planned Before Summer: Intro to Data Analysis, Mathematical Statistics, Intro to ML, Statistical Programming in R, Data Management Systems, Optimization, Design and Analysis of Experiment, Linear Models, Intro to Data Science

## Data Analysis Experience

### Visual Intelligence Lab

*Research Assistant*

**Aug. 2024 – Present**

*Los Angeles, CA*

- Researched and implemented a recurrent neural network using TensorFlow to create a machine learning model that can categorize names by their origin.
- Assisted in collecting and labeling data for GE Aerospace to assist in the ECOLE artificial intelligence project.
- Read and presented research papers to the lab group on a weekly basis, learning more about current research in machine learning such as scene graph implementation and other topics in computer vision.

### National Student Data Corps

*Project Member*

**Aug. 2024 – Present**

*Los Angeles, CA*

- Built a sentiment analysis model to categorize positive and negative reviews using PyTorch and RNNs, refining model accuracy with additional training data.

### Dong Lab

*Research Assistant*

**June 2024 – Present**

*Los Angeles, CA*

- Conducted in-depth analysis of microbiome datasets using ggplot2 package in R to visualize bacterial composition across samples, presenting findings in weekly lab meetings.
- Scripted complex data cleaning and statistical tests to interpret microbiome diversity and its relationship to host health, contributing key insights to lab publications.

## Personal Projects

### Clothing Category Classification with CNN | *Deep learning, Python, Google Colab*

**November 2024**

- Developed a Convolutional Neural Network (CNN) model to classify images of clothing into categories such as shirts, pants, dresses, and shoes. The project involved preprocessing image data, training the CNN, and evaluating the model accuracy.

### Analysis of Gaming Behavior | *SQL, Python, Machine Learning*

**December 2024**

- Analyzed player gaming behavior by querying and processing a large dataset with SQL using SQLite and Python, uncovering key trends in engagement and retention that informed actionable insights for game development.
- Visualized key insights with Matplotlib and Seaborn, creating bar plots, line graphs, and stacked charts.
- Built predictive models using a Random Forest Classifier and a custom logistic regression implementation, achieving an accuracy of 85% in classifying player engagement levels. Project available on GitHub.

## Technical Skills

**Languages:** Python, R, SQL, C++, HTML, CSS

**Tools:** VS Code, XCode, Tableau, Excel

**Technologies/Frameworks:** Linux, GitHub

## Work Experience

### UCLA Library

*Student Assistant 3*

**June 2023 – Present**

*University of California, Los Angeles*

- Assist patrons with finding research papers, articles, and books and train new hires.
- Shelve and organize the stacks to keep books organized and work around 15 hours a week overall.

## Volunteer Experience

### Matricuate

*Advising Fellow*

**Aug. 2022 – Present**

*University of California, Los Angeles*

- Provide guidance on college apps through essay editing and scholarship search, fostering confidence for applicants.

### Hunger Project

*Volunteer*

**Aug. 2022 – Present**

*University of California, Los Angeles*

- Organize and distribute hygiene kits to houseless communities and prepared meals in shelters.