

Ashish Singh

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EDUCATION

University of California, Los Angeles (UCLA)

M.S., Applied Statistics and Data Science

Dec 2026

Los Angeles, California

University of California, Los Angeles (UCLA)

B.S., Statistics and Data Science

Jul 2024

Los Angeles, California

SKILLS

- **Programming & Querying:** Python, pandas, numpy, matplotlib, SQL, joins, CTEs, aggregations, R
- **Data Engineering & Processing:** ETL pipelines, Data preprocessing, Exploratory Data Analysis, Data cleaning, Data documentation
- **Visualization & BI:** Tableau, Power BI, Excel

EXPERIENCE

Echo

Data Analyst

Jan 2025 - Present

New York City, New York

- Conducted behavioral analysis on user engagement using Python (pandas) and Tableau, identifying a 20% spike in ranking interactions during major release cycles.
- Designed and maintained Tableau dashboards that tracked retention, feature adoption, and engagement across top artists and genres, enabling product teams to prioritize features and make faster, data-driven decisions
- Evaluated UX enhancements using experimentation frameworks, contributing to a 15% increase in playlist shares and session depth.

VectorSurv (UCD)

Research Assistant

Aug 2024 - May 2025

Davis, California

- Collaborated with a postdoctoral researcher and analytics team to analyze 8-band satellite imagery (2020–2023) using R, producing an environmental risk assessment that identified high-risk areas for mosquito-borne disease exposure
- Designed and implemented data-preprocessing pipelines in R (raster, tidyverse) to extract, clean, and structure large-scale remote-sensing datasets, enabling faster downstream analysis for the project
- Performed geospatial and multispectral analysis in R and created ggplot2 visualizations that modeled spectral trends, revealing locations with suitable conditions for mosquito habitats and supporting targeted surveillance

Express Market

Operations Intern (Data Analytics & BI)

Jun 2022 - Aug 2023

Portland, Oregon

- Wrote and optimized PostgreSQL SQL queries to extract, transform, and model sales data from relational databases, enabling timely business-intelligence reports that guided the company's expansion strategy
- Built Python-based ETL workflows to clean, preprocess, and standardize multi-source operational datasets, improving data quality and analysis reliability.
- Created Tableau dashboards linked to live SQL data sources, providing clear insights to business stakeholders and documenting data processes for cross-team use

PROJECTS

Pneumonia Detection with LLM & Deep Learning

Jan 2026 - Present

- Fine-tuned a large language model integrated with CNN-based feature extraction to classify chest X-rays for pneumonia detection.
- Preprocessed imaging data using Python (PyTorch, torchvision, NumPy), applying augmentation and normalization to improve model robustness.
- Currently evaluating model performance across accuracy, precision, recall, F1-score, and AUC to optimize pneumonia classification results.

Predicting Heart Failure

Jan 2024 - Mar 2024

- Cleaned and modeled a 368-patient clinical dataset (60 variables) using Python, applying VIF-based feature selection to reduce multicollinearity.
- Implemented Logistic Regression, SVM, SGD, and Random Forest models, achieving 98.2% accuracy after GridSearchCV tuning.