

Suraj Rajan

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Education

University of California, Los Angeles, *September 2022 - June 2024 (Expected Graduation)*

- **B.S. in Statistics and Data Science**
- **Relevant Coursework:** Data Analysis & Regression, Python with Applications, Regression & Data Mining, Statistical Programming in R, Probability & Statistics, Inferential Statistics, Statistical Learning, Linear Models, AI & Society.

Diablo Valley College, *August 2020 - May 2022*

- Completed prerequisite major coursework for transfer to UCLA.
- **Relevant Coursework:** Linear Algebra, Multivariable Calculus, Business Statistics

Technical Skills

- **Programming:** Python, SQL, R, Pandas, NumPy, ggplot2, tidyverse
- **Tools/Technologies:** Tableau, Microsoft Excel, Jupyter Notebooks, RStudio, Jira, Confluence

Work Experience

Applied Materials (Data Science Intern), *June - September 2023*

- Automated hardware counter and CPU memory performance data collection with a **Bash script**, significantly accelerating the collection process.
- Leveraged **Python (NumPy, Pandas)** for precise data cleaning, pre-processing, and consolidation, ensuring data integrity.
- Utilized **Excel** for robust data validation and creation of visual plots, enhancing the clarity of presentations.
- Communicated insights to senior management, contributing to the development of a future research framework.

California State Assembly (Legislative Intern), *June - November 2021*

- Managed constituent communications for Assm. Rebecca Bauer Kahan's District Office, providing timely assistance.
- Conducted in-depth research on legislative proposals to address prevalent issues faced by AD-16 constituents.
- Collaborated with a dynamic team of interns to design compelling graphics and videos, encouraging increased civic engagement among students in the district.

Projects

NYC AirBnbs and Housing Availability (Data Science Project), *September - December 2023*

- Investigated effects of Airbnb presence on NYC housing market as the Data Cleaning and Visualization Specialist.
- Utilized **R** to process and clean NYC InsideAirBnb dataset, allowing for visualization and analysis.
- Used **Tableau** to create a heat map from spatial data, enhancing the comprehension of Airbnb's impact on housing in NYC.
- Collaborated with other students to curate insights and visualizations on an interactive website.

Iowa Test Data (Data Analysis Project), *May - June 2023*

- Analyzed the Iowa Test dataset to assess academic performance disparities between Iowa City and other Iowa Schools.
- Utilized **R (dplyr)** for data manipulation, extracting rows to generate specialized datasets for t-test comparisons.
- Developed a regression model to explore the predictive power of poverty scores on academic performance, validating model assumptions through diagnostic plots.