

CONTACT ME

📍 Greater Bay Area

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Cumulative GPA: 3.43/4.00

EDUCATION

2019-2022

University of California, Davis

- **Mathematics (BA)**
- **Minor in Economics**

2017-2019

Los Medanos College

- **Business Administration for Transfer (AS)**
- **Liberal Arts Math & Science (AA)**
- **Liberal Arts Behavioral Science & Social Science (AA)**

SKILLS

- SQL (MySQL)
- Data Visualization Software (Tableau, Power BI)
- R
- Python (Pandas, NumPy, SciPy, Matplotlib)
- Matlab
- Excel & Google Sheets
- Testing and Experimentation

RELEVANT COURSEWORK

- Data Structures
- Information Theory
- Probability Theory
- Stochastic Processes
- Combinatorics
- Modern Algebra
- Linear Algebra
- Real Analysis
- Numerical Analysis
- Engineering Problem Solving
- Money and Banking Institutions
- Economics of Decision Making
- Intermediate Micro & Macro Economic Theory
- Financial & Managerial Accounting

Neel Sahota

Career Objective:

I am a prospective data/business analyst who strives to answer meaningful questions through the use of quantitative data. I am eager to show the skills I have learned through projects, certifications, and my educational background of mathematics and economics.

WORK EXPERIENCE

Manufacturing Engineering Intern

June 2019- Sept. 2019

Fresenius Medical Care | Concord, CA

- Collected and analyzed data on 19 different assembly procedures; used this data to make improvements to procedures and increase daily assembly output numbers.
- Lead a project that utilized root cause analysis for kinked tubes within the device, and conducted a design of experiments to successfully reroute the tubes to prevent kinking.
- Heavily updated over 20 Work Instructions and Bill of Materials to reflect my updated procedures as well as tube routes.
- Presented my findings and updates to the Plant Director as well as the entire group of manufacturing engineers to display the impact my work had.

CERTIFICATIONS & PROJECTS

Google Data Analytics Professional Certificate

By completing this certificate, I was able to refine my skills as a data analyst and understand the expectations that an analyst has in a professional work environment.

Ecology and Information Theory Research Project

- Project that focused on data analytics and entropic methods to predict future population densities of specific species belonging to the Gaviota Coast.
- Using the California Department of Fish and Wildlife's online Biographic Information and Observation System (BIOS), I used SQL to query hundreds-of-thousands data points to use for this project.
- My group and I used this filtered data in conjunction with ecological applications of information theory to analyze and predict how dense certain species population would be in the future.

Matlab Sensors Visualization App

- Using data gathered on Matlab's mobile app, my group and I made an interactive Matlab app which displayed users GPS data overlaid on an interactive map of Davis, CA.
- Users can upload their positional data to the visualization where they are then shown an interactive map of the route they took as well as the speed they were going. The visualization shows the route overtime so users can clearly see their journey plotted from beginning to end.
- Users are also shown a breakdown of their data that includes distance traveled, highest speed, and many other insightful queries.