Ranjosh Waraich

Email: ranjoshwaraich@gmail.com | Phone No. 510-435-1467 | github.com/ranjoshwaraich

EDUCATION

University of California, Davis — **Davis, CA**
Bachelors of Science, Statistics — 2020-2023
Bachelors of Arts, Economics
Minor in Computer Science

Berkeley City College — **Berkeley, CA**
Honors Associate of Arts, Anthropology — 2019-2020

- **Languages:** Punjabi, Hindi
- **Technical Skills:** SQL, Python, R, Matlab, Stata, Hadoop, AWS, Machine Learning, NLP, AI,

EXPERIENCE

Undergraduate Researcher — **Davis, CA**
- *Economics Department - Econometrics* — *September* 2022 - May 2023
  - Study a class of robust estimators of the parameters of a stochastic utility function.
  - Use existing maximum likelihood and regression estimation methods under the assumption of a particular distributional family for the random component of utility

Aggie Reuse Store — **Davis, CA**
- *Data Analytics Intern* — April 2022 - May 2022
  - Optimize customer experience through merchandise and social media analysis
  - Deliver technical workshops to teach exploratory analysis, frameworks, and model building
  - Design questionnaires to understand student experience
  - Conduct focus groups to improve store-front operations
  - Advocate data-informed store initiatives and improve quarterly sales

Plan4Co - Remote — **Irvine, CA**
- *Data Science Intern, Team #3 Leader* — May 2021 - August 2021
  - Developing an innovative app called PSAs (the Power Snowflake Apps) which leverage all the volumes of complex global multi-cloud data accessible on Snowflake, in combination with analytics tools on Microsoft Power Platform and by using Robotic Process Automation to provide solutions to the numerous new challenges from the COVID pandemic and beyond, for Business, Schools and Government.

California Institute of Regenerative Medicine — **Berkeley, CA**
- *Research Intern* — January 2019 - June 2019
  - Research on the development of regenerative, micro-sized medical devices aimed at repairing cardiac tissue following a heart attack. The devices were biodegradable and complex in nature to address the challenging demands of a damaged heart.

PROJECTS

North Carolina Textile Company — March 2022
  - Finding the relationship between Byssinosis and the other five variables and creating a model to predict whether an individual is likely to have byssinosis from their work environment

Covid Forecasts in Europe — February 2022
  - Analyzed the different factors that may have an effect on Covid-19 levels and compared the data on those factors between various European countries
  - Identified the overall implementation of response measures in relation to data parameters, while also gauging public satisfaction in order to forecast effectiveness and changes during the pandemic
  - Fitted time series model to predict future positivity rates and number of new cases in European country

Monthly Mortgage Rate Time Series Analysis — November 2021
  - Using a data set that contains inputs from the Federal Reserve Economic Data, I built a time series model for Federal Funds Rate and analyzed its effect on Monthly Mortgage Rates.

Electroencephalogram Signal Processing — September 2021
  - Analyzed the frequency and spectral density, indexed at 13000 seconds, projecting EEG activity readings from a patient having a seizure.