

# Stephanie Laface

DATA SCIENTIST

Los Angeles, CA

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## Skills

<b>Programming (30,000+ LOC):</b>	Python, SQL
<b>Programming (1,000-5,000 LOC):</b>	R, MySQL, MongoDB, HTML/CSS
<b>Packages</b>	NumPy, SciKit-Learn, Scipy, Matplotlib, Plotly, Pandas, Requests, Tensorflow
<b>Technologies</b>	VSCode, Github, AWS (Sagemaker, Lambda, Cloudwatch), GCP, Jupyter(IPYNB), Docker, RStudio, PowerBI, Tableau, QuickSight
<b>Machine Learning</b>	Linear/Logistic Regression, Decision Trees and Forests, Gradient Boosting Machines, Time Series, Clustering (K-means, KNN, DBSCAN, K-Medoids), Principal Component Analysis (PCA), Support Vector Machines
<b>Deep Learning</b>	Recurrent Neural Networks (RNN), Long Short Term Memory Networks (LSTM)

## Education

### UC Berkeley School of Information

M.S. INFORMATION AND DATA SCIENCE

Berkeley, CA

2021 - 2023

### Claremont McKenna College

B.A. IN SCIENCE, TECHNOLOGY, SOCIETY

Claremont, CA

2013 - 2017

## Projects

### Call Center Volume Prediction [Github](#)

SAFERIDE HEALTH

- Explanation of Gradient Descent and why its used in machine learning.
- Discussed Optimizer implementation in Deep Learning.
- Explanation of the mathematics behind Momentum, AdaGrad, RMSProp, and Adam Optimizers.

### A Quantile Regression Analysis of Social Determinants of Health and Procedure Rates

#### Post-CMS Hospital Price Transparency Regulation [GitHub](#) | [Abstract](#) | [Website](#)

UC BERKELEY | CAPSTONE PROJECT

- Conducted analysis on a dataset containing healthcare pricing data from 4,000 hospitals across 50 states, complemented with Social Determinants of Health SDoH factors from agencies such as the CDC ATSDR SVI, CMS Cost Reports, Census American Community Survey ACS, and the American Hospital Association (AHA).
- Applied Quantile Regression with the Least Squares method to a dataset of 586,095 observations, achieving a pseudo R squared value of 0.1676, which explained approximately 16.76 percent of the variability in the rate log dependent variable.
- Identified significant correlations between rate log and several principal components, revealing influential factors impacting healthcare procedure rates and informing more effective pricing strategies.
- Enabled improved healthcare decision-making by increasing price transparency and illuminating associations between SDoH factors and procedure rates, potentially benefiting a target population consisting of 36.3 percent of Americans with no insurance or High Deductible Plans (HDHPs).
- Contributed to a potential reduction in healthcare costs and improved access to care by highlighting areas for policy intervention and targeted strategies based on the insights derived from the healthcare pricing dynamics study.

### Flight Delay Prediction on DataBricks [GitHub](#)

UC BERKELEY | MACHINE LEARNING AT SCALE CLASS PROJECT

- Using PySpark, joined weather station, airport, and airline data to create a feature set; implemented a ML Pipeline to perform encoding, null imputation, and feature scaling
- Decision tree model to predict flight delays achieved a precision of 0.77 – the chosen metric for our hypothetical business case

## Employment

## SafeRide Health

Los Angeles, CA (Remote)

### BUSINESS INSIGHTS MANAGER

Jan 2020 - Present

- Established and optimized SQL tables and queries to manage and scale FinOps for Medicaid claims processes, successfully automating the submission of hundreds of thousands of claims per month, resulting in improved efficiency and accuracy.
- Led and mentored a team of three Business Intelligence analysts, focusing on delivering a full suite of analytics in Tableau for the firm and critical compliance reporting for areas such as claims, ride performance, and member complaints, thereby ensuring regulatory compliance and SLA performance monitoring.

## SafeRide Health

Los Angeles, CA

### OPERATIONS ASSOCIATE

Aug 2018 - Jan 2020

- Served as Prod Ops lead for bridging the gap between Product and Operations, grooming JIRA for product improvements and tech bugs causing operational issues and member dissatisfaction and communicating resolutions back to the client with the Customer Success team
- Implemented system architecture for integration and automation of third-party services including Zendesk, Salesforce, PowerAutomate enabling streamlined operations and fostering process excellence across the organization.

## Kaiser Permanente

Oakland, CA

### INNOVATION AND ADVANCED TECHNOLOGY INTERN

June 2016 - Aug 2016

- Conducted comprehensive research for Kaiser's Innovation Lab and Consultancy team and pitched to a national KP audience of over 1,000 employees on emerging products in healthcare technology.
- Key projects included an exploration of Savioke's Relay robot, which is expected to enhance service efficiency by 30 percent, and Aclima's air quality sensors, a groundbreaking innovation with the potential to improve air quality monitoring in KP facilities.

## Claremont McKenna College

Claremont, CA

### ADMISSION OFFICE ASSOCIATE

Aug 2014 - May 2017

- Led interactive campus tours for prospective students and their families, providing in-depth information about the college while demonstrating excellent interpersonal skills.