

# Saba Suhail

DATA SCIENTIST

San Francisco, CA

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## About

Data Scientist with engineering background. Experienced in drawing insights from data using statistical principles and sound research design methodology to make critical business decisions and build data-driven products. I'm seeking a data science position focused on hard problems with the opportunity to grow into leadership role.

## Work Experience

### Research Assistant

Bangalore, India

INDIAN INSTITUTE OF MANAGEMENT

August 2020 - Feb 2022

- I was working under various professors of Strategy and was responsible for gathering data, building and analysing models, running hypothesis (A/B) testing and writing papers.
- Analyzed census data of India for female literacy data for year 1909 and microfinance institutions performance data for year 2019 in various districts in India to find causal relationship in various Indian districts for year 2019
- Collected sustainability data for Fortune 500 companies from 1955 to 2019 and GDP of various countries from 1960-2019, analyzed and made a report. This was added into a EdX Sustainability MOOC course.
- Skills: Data Cleaning, Causal Modeling, Visualization, Operation Research, Strategy Management, Econometrics, Innovation Management, Research Design, Stata, Python

### Scientist C (Data Scientist)

New Delhi, India

DEFENCE RESEARCH DEVELOPMENT ORGANIZATION

Apr 2018 - July 2020

- DRDO is India Govt's Defence research organization and I was responsible for building statistical and mathematical models for multiple business needs.
- Worked on log data extraction and analysis efforts to reduce the signal loss errors between device communication and handoffs.
- Worked with cross functional team of scientists, technical officers and external stakeholders to optimize the inefficient strategic business processes.
- Skills: SQL, Python, Data Analysis, Data Wrangling, Linear Regression, Statistical Analysis, Data Modeling, Report/Dashboards, Frequency Analysis

### Scientist B (Data Analyst)

New Delhi, India

DEFENCE RESEARCH DEVELOPMENT ORGANIZATION

May 2014 - Apr 2018

- DRDO is India Govt's Defence research organization and I joined as Scientist responsible for cryptographic systems research.
- I was responsible for building, testing and deploying cryptographic communication systems, it included extensive data analysis, validation and managing dashboard/reports.
- Built a new practical hybrid random generator using a low frequency oscillator and ISAAC pseudo RNG, validated the statistical properties of the output in MATLAB.
- Skills: SQL, MATLAB, Data Analysis, Data Modeling, Report/Dashboards, Project Management

### Research Intern

Madison, WI

UNIVERSITY OF WISCONSIN

May 2014 - July 2020

- Worked on developing a tool for power electronics research by linking together a set of simple electrical components which makes power electronics research safer and more accessible.

## Education

### Data Science Bootcamp

Remote/San Francisco, CA

GENERAL ASSEMBLY

Apr 2022 - Jul 2022

- Completed over 20 labs and 5 projects in a 12 week immersive data science course that included exploratory data analysis, statistical modeling, supervised and unsupervised machine learning.
- Used Natural Language Processing techniques, various classification algorithms and Ensemble Methods to predict the popularity of reddit posts scraped using Reddit API
- Collaborated with a team of fellow data scientists to use machine learning principles to make predictions about the climate awareness of a typical American citizen
- Worked on capstone project to apply Natural Language Processing techniques, classical Machine Learning and Deep Learning methods to identify sarcastic posts.

### PhD Strategic Management

Bangalore, India

INDIAN INSTITUTE OF MANAGEMENT

Aug 2020 - Feb 2022

- Relevant Courses: Python, Linear Algebra, SQL, Statistics for Management Research, Technology and Innovation Management, Econometrics

- Relevant Courses: Linear Algebra, Probability and Statistics, Multivariate Calculus, Programming and Data Structures, Game Theory

## Relevant Skills

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**Programming Tools** SQL, Python, Numpy, Pandas, Sklearn, Scipy, Keras, Git, AWS

**Data Visualization** Matplotlib, Tableau, Seaborn, Plotly, Excel, Google Sheets

**Machine Learning** EDA, Linear Regression, Logistic Regression, KNN, Random Forests, Decision Tree, NLP, Neural Nets, Clustering, PCA