

# Samira Kumar Varadharajan

San Francisco, CA

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## Skills

**Certifications:** Tableau Desktop Specialist, Tableau Data Scientist/Analyst, Alteryx Core Certified,  
**Programming:** Python (Flask, Scikit-Learn, Pandas, Numpy, Statsmodel, TensorFlow, Keras (NN, CNN)), MySQL, Presto, Spark SQL, R,  
**Visualisation:** Tableau Desktop/Server, Python (Plotly, Bokeh, Seaborn, Matplotlib), D3, Mapbox,  
**DevOps:** Airflow/Dataswarm, AWS (SageMaker, EC2), Heroku, Git, Alteryx,  
**Strengths:** Deliberative, Analytical, Responsible, Learner, Input, Management, Leadership,

## Education

### University of California Irvine

Jul. 2018 - Jun. 2019

MASTER OF SCIENCE IN BUSINESS ANALYTICS, GPA: 3.848 (BETA GAMMA SIGMA AWARD)

### Anna University

Aug. 2011 - May 2015

BACHELOR OF ENGINEERING IN ELECTRICAL ENGINEERING, GPA: 3.7

## Experience

### Data Science Analyst/Engineer

Jan. 2020 - Present

#### FACEBOOK - LEGAL ANALYTICS (CONSULTING)

- Build & maintain workforce management projects, providing 30+ stakeholders with insights on 100k tickets/month from multiple case management tools.
- Streamlined charity on-boarding and review processes by 3.5 times through building Tableau dashboards to monitor key metrics.
- Initiated and led projects to convert legacy ad-hoc SQL reports to Tableau dashboards, generating automated insights to stakeholders.
- Improved the data capture of legacy data pipelines by 30% through fixing source tables by partnership with engineering teams.
- Increased operational efficiency of Tableau dashboards by implementing data pipelines, using airflow, to migrate data sources from SQL views to hive tables.
- Reduced the data pipeline downtime by 40% through building quality control dashboards to monitor pipeline and hive tables.

### Research Assistant (UC Irvine)

Sep. 2019 - Jan. 2020

- Built an open source machine learning python tool for use in postgraduate curriculum to teach students to implement machine learning concepts. The tool teaches analyzing trends in data and building models like regression, classification and clustering.
- Additionally, a separate research with a leading coaching provider showed us that the chances of purchasing a course is 50% higher through SEO campaigns than other methods like Emails, SEM, Impressions.

### Data/Programmer Analyst II

Jan. 2016 - May. 2018

#### COGNIZANT

- Worked with Abbvie across multiple team/stakeholders on performing data analysis & front-end development for their clinical trials.
- Implemented an agile workflow which reduced development time by 50% and peer-review time by 40% over a year.
- Consistently delivered <0.01% defect rate on front-end developments.
- Promoted to Analyst II, after 1 year on-the-job, based on demonstrated industry expertise, strong leadership potential
- Received employee of month and quarter awards from senior management based on outstanding performance in solving critical development bugs in short time
- Commended for my mentorship skills during the on-boarding process, enabling new employees to quickly achieve results in their new roles.

## Projects & Leadership Experience

### football-packing - Python package

May. 2020

- Created an open-source V0.2 python package to calculate packing rate metric which is calculated when a pass/dribble is made in soccer game.
- Package also provides an in-built tool that creates interactive visualization built using Bokeh plots.
- Package can be integrated to a Flask app to work on real-time data streams.
- Overall efficiency is improved by using other Python packages like Pandas, Numpy, Scipy, Bokeh plots and scikit-learn.

### Amazon - Alexa

Jan. 2019 - Jun. 2019

#### CAPSTONE PROJECT (UC IRVINE)

- Developed a supervised model to categorize Alexa skills (applications) with a top-3 accuracy of 90% by creating a new semantic score model using spaCy. Model was integrated with a Flask application to provide real-time predictions.
- Developed an automated machine learning pipeline (data cleaning/processing - modelling - prediction) for classification of 55k Alexa skills.

### Leadership

- Program Ambassador, VP of Technology and Education at Merage Analytics Club, Public Speaker.