ANIRUDH RAMCHANDRAN

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EDUCATION

Master's in Electrical and Computer Engineering, *University of California, Davis, CA* *expected Dec 2021*
Relevant Coursework: Recommender Systems, Reinforcement Learning, Data Science, Stats and Web technologies for Data Science, Data in the Built Environment, CSCW, and social computing
Leadership: Graduate Teaching Assistant and Graduate Research Assistant

Bachelor's in Electrical and Electronics Engineering, *DSCE, Bangalore, India* *August 2015- May 2019*
Relevant Coursework: Python Programming, C++, Intro to Java, Embedded C | ***Honours***: 8th Rank in Department

TECHNICAL SKILLS

Data Visualization, Machine Learning, Web-Dev, Statistics, Reinforcement Learning

Languages/Technologies: Python, R, SQL,HTML, JavaScript, CSS , C++, Git, MATLAB, Power BI, AWS
Toolbox: Pandas, ML-Lib, Scikit-Learn, Flexbox, D3.js, Flask, Keras-TensorFlow

RELEVANT EXPERIENCE

Data Analyst Intern- TÜV SÜD GLOBAL RISK CONSULTANTS *Remote| June 2021-Present*

- Designed a front-end client-facing dashboard **using PowerBI** to visualize different factories across the globe and provide relevant information for each of them. Automated the **update of the dashboard data** using SQL queries.

Graduate Student Researcher- UC DAVIS *Davis, CA | January 2021-Present*

- Designed and built a dashboard using HTML, CSS, JavaScript to **provide technical longitudinal information** of Open-Source projects from the Apache Software Foundation incubator (ASFI)
- Designed visualizations using **d3.js** to show monthly developer email networks & their file committing habits in a particular project. Project proposal was accepted in the **ApacheCon 2021.**

Data Analyst Intern - Schneider Electric *Bangalore, India |January-May 2019*

- Set up a **SQL database** for the collection of **near-miss accidents** and other incidents on the factory floor. Performed visual and exploratory analysis to gain insights, which helped **reduce accidents by 2%** in the following months.
- Presented results to the team and wrote requested executive summary detailing strategy to help **reduce factory downtime** to present to end clients and senior leadership.

ACADEMIC AND PERSONAL PROJECTS

Data Science Salary Predictor [Python, Selenium , pickle , flask] *March-June 2021*

- Created a tool that helps estimate the data science salaries with a MAE $15,000 based on a **mixed inputs model in Keras.**
- The model takes into account the job description as a tokenized data and also takes other factors like location, seniority, etc .

Stock Price Forecasting and Clustering based on Trading pattern [R,Python,Prophet,K-means,GMM,plotly] *Feb-March 2021*

- Using **K-means** and **Gaussian Mixture Models** to cluster 51 random companies, also designed time series models using **Prophet** to forecast adjusted closing prices for any given stock based on its historical data.
- The resulting clusters showed resemblances in sectors, price-to-earnings ratios, and the forecasted price gave insights that can be exploited to improve planning and get to more comprehensive decision-making about companies.

Developer Name Disambiguation (de-aliasing) on Apache Software Foundation(ASFI) : [Python ,Bs4,K-means, Sklearn] *Sept-Dec 2020*

- Scraped the developer names, emails of 330 projects present in the ASF using **BeautifulSoup4**, then performed the necessary pre-processing steps to create a clean data set.
- Programmed clustering models: to correctly find full author name given only project name, finding developers' hidden email id, and clustering similar author/developer names. Models demonstrated an **accuracy of 90%** upon assessment.

Bitcoin Price Prediction using RNN [Keras, Python, RNN] *June 2020.*

- Implemented **a Recurrent Neural Network** to forecast the Price of Bitcoin; the model showed an **MAE of $ 600**. Also, illustrated the variation in the actual closing value visually and predicted closing value.

Solving Adaptive 2048 using Deep Q learning: [Python, CNN, Open AI Gym] *March 2020*

- Remodelled the popular sliding block game '2048' to **hinder the player** from using already known strategies for winning the game.
- Implemented an intelligent **Q learning agent** with a 5-layer end-to-end, Deep learning-based neural network to learn game control policies, which enabled the agent to secure a **scores of 512** and above.

CERTIFICATIONS

BCG-Gamma Data Science & Advanced Analytics Virtual Internship Program *June 2021*

- Developed a predictive model using **XGboost** to predict customer churn rate and predict the **main factors behind customer churn**.