**Lakshmi Roopavathy, Thatiparthi**

Sandiego, CA

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GitHub: [*https://github.com/RoopaRaghav/*](https://github.com/RoopaRaghav/)

**Summary**

*Computer Science Engineer with experience in analyzing large data sets and coming up with data driven insights. Completed various projects end to end with different big data technologies and machine learning models.* *Detailed, organized and has Critical Thinking and proactive problem solver.*

**Technical Skills**

*Python, JavaScript, VBscript, MongoDB, PostgresSQL, Machine Learning, AWS- RDS, Big DATA, PGAdmin, GIT, Tableau.*

**Projects**

1. *Women Well Being Analysis | UCSD Boot Camp Final Project - San Diego, CA*  0*1/2023 - Present*

* *Responded to technical concerns quickly and effectively devised solutions.*
* *Monitored project progress, ensuring conformance to design specifications and safety standards.*
* *Managed project documents and followed industry standards.*

***Description****: Performed analysis on women well-being in 52 countries considering the major indicators like Education, Domestic violence, age, fertility and health.*

***Role****: Developed and designed the database pipeline using the AWS RDS/ Postgres SQL free tier architecture and created a pipeline for the ETL and machine learning analysis for tableau stories.*

***Technologies******Used****: Python, AWS-RDS, PgAdmin, Clustering algorithms,Tableau.*

***GIT******Repo****: https://github.com/RoopaRaghav/FinalProject*

1. *Credit Risk Analysis | UCSD Boot Camp - San Diego, CA 2022*

***Description:*** *Supervised Machine Learning using different linear and logistic regression algorithms on unbalanced classification problem like Credit Risk analysis.*

***Role:*** *Performed ETL on Credit card dataset and cleaned data for machine learning models. Created different Supervised ML models to compare and contrast based on accuracy score and summarized best one that suits credit risk analysis.****Technologies Used:*** *Python, Imbalanced-learn,Scikit learn, Linear regression and logistic regression models, GIT****GIT Repo:*** *https://github.com/RoopaRaghav/Credit\_Risk\_Analysis*

1. *Crytocurrencies | UCSD Bootcamp - San Diego, CA* *2022*

***Description****: Unsupervised Machine Learning using clustering algorithms and developed this project.*

***Role:*** *Developed Unsupervised machine learning model for vast dataset of Cryptocurrencies that places cryptocurrencies in clusters. Scaled and fit data and performed PCA analysis for feature engineering before data is fit to ML model. Created visualizations using Plotly for model outcome and summarized tradable cryptocurrencies from dataset.*

***Technologies******Used****: Python, Scikit learn, K-Means Clustering algorithms, GIT****GIT Repo****: https://github.com/RoopaRaghav/Cryptocurrencies  
Credit Card Analysis*

1. *Amazon Vine Analysis | UCSD Bootcamp - San Diego, CA*  *2022*

***Description****: Used PySpark to perform ETL process, connected to AWS RDS instance, and load transformed data into pgAdmin.*

***Role****: Developed end-end database pipeline and performed ETL on amazon vine dataset and populated required tables in PostgresSQL.*

***Technologies******Used****: Python, AWS- RDS, PgAdmin, PostgresSQL, GIT*

***GIT Repo****: https://github.com/RoopaRaghav/Amazon\_Vine\_Analysis*

**Experience**

*Senior Software Engineer | NCR Corporations - Hyderabad India 2012*

* *Designed a module that checks and monitors the self-service terminals.*
* *Trained and mentored junior developers and engineers in C# and improved the overall team performance.*
* *Worked extensively in the Software Coding, Debugging and Testing.*

***Software Engineer*** *| Caritor India Pvt.Ltd., Bangalore India 2008.*

***Project****: Computerized Criminal History, Records and Identification for State of Pennsylvania*

* *Responsible for design and development of a secure solution to store law enforcement records. It is utilized by the Pennsylvania Justice network and other state & national agencies.*

***Assistant Technical Engineer*** *| COMM labs India Pvt Ltd., Hyderabad 2006*

*Trained in PHP and worked as an assistant technical engineer and assisted in creating e-learning projects.*

**Education**

*University of California - San Diego - La Jolla, CA 01/2023*

***UCSD Bootcamp****: Data Science and Visualizations GPA- 3.8*

*NBKR Institute of Engineering - Nellore, India GPA – 3.0 04/2007*

***Bachelor of Science*** *in Computer Science Engineering*

***Boot Camp Certificate:*** UCSD Extended Studies, Sandiego, CA – 2023

A 24-week intensive program focused on gaining technical programming skills in Excel, VBA, Python, R, JavaScript, SQL Databases, Tableau, Big Data, and Machine Learning.