RAHUL APPANA

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EDUCATION EXPERIENCE

The University of Texas at Dallas May 2023
Master of Science, Business Analytics (Cohort Scholar) **GPA 3.89**

Jawaharlal Nehru Technological University, **Hyderabad** May 2018
Bachelor of Technology, Mechanical Engineering **GPA 3.70**

CERTIFICATIONS AND TECHNICAL SKILL EXPERIENCE

Certifications:	MTA-98-381 Python Certification, Deep Learning Specialization by deeplearning.ai (Coursera)
Python/R Libraries:	Pandas, Numpy, Scipy, statsmodels, scikit-learn, xgboost, catboost, matplotlib, seaborn, bokeh, Plotly, strsimpy, MLFlow, NLTK, Tensorflow, keras, Spacy, Tabula, BeautifulSoup, Koalas, Multiprocessing, Flask, Tornado, Django, Streamlit, dplyr, ggplot2, shiny, broom, Caret, dask
Programming:	SQL server, MongoDB, SQLite3, R programming, Python, Tableau, PowerBI, Shell, Airflow, Kafka, Spark, Hadoop, Snowflake, Knime, bash, Google Analytics, Excel
Algorithms/Concepts:	Decision Trees, Regression, Clustering, Bagging, Boosting, Support Vector Machines, Advanced Statistical Analysis, Naïve Bayes, Random Forest, Dimensionality Reduction, KNN, K-means, Hierarchical clustering, Agglomerative, DBSCAN, OPTICS, Bag of Words, Word2Vec, CNN, RNN, LSTM, GAN, MLP, Text mining, Semantic Analysis, Time series analysis, ETL Pipelines, Exploratory Data Analysis

PROFESSIONAL EXPERIENCE

Infosys Limited, **Hyderabad** May 2020 – June 2021
Senior Systems Engineer, Research and Development

- Received Insta Award for design and development of analytics module architecture using bokeh data visualization library
- Spearheaded development of a tool for identifying duplicate records from SAP CFIN with string similarity algorithms reducing effort by 20%
- Developed a model on an imbalanced dataset with SMOTE technique resulting in improving metrics of the model by 12%
- Created wrapper methods for data cleaning and feature engineering operations to run functions in a pipeline using workflows

Systems Engineer, Research and Development Sep 2018 – May 2020

- Designed and evaluated backend architecture using SQLite3 database, Bokeh Server, Tornado web server
- Implemented model tracking with MLFlow library for managing machine learning lifecycle
- Implemented Nginx load balancer for scaling bokeh server to increase the number of concurrent requests
- Selected and worked on pro bono projects during 8-week Strategic Design Program by Rhodes Island School of Design

PROJECTS

- Worked on customer churn prediction problem performing RFM analysis improving the metrics of the model by 8%
- Developed a recommender system using deep neural networks with scikit learn library
- Performed an exploratory data analysis on a dataset applying advanced statistical techniques
- Designed a database in Microsoft SQL server, resulting in effective query optimization

ADDITIONAL INFORMATION

Languages: English, Hindi, Telugu
Eligibility: Eligible to work in the US for internships up to 12 months and for full time for up to 36 months without sponsorship