VAISAG RADHAKRISHNAN

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MOTIVATION

I am passionate about solving business problems using Data Science & Machine Learning. I systematically & creatively use my skillset to add tangible value to the team, the business, and the end-user. I am constantly learning, and always looking to improve.

SKILLS & TOOLS

Programming: Python (Base, Pandas, Numpy, Matplotlib, Scikit-Learn), SQL, R Programming

Machine Learning: Linear Regression, Logistic Regression, Decision Trees, Random Forest, K-Nearest Neighbor, k-means, Principal Component Analysis

Other: Statistics, Github, Data Visualization, MS Office, Tableau, Jupyter Notebook, AWS Sagemaker, Google Colab

EXPERIENCE

Datawarehouse Analyst - TCS - Truist
MAR 2022 - PRESENT

- Created and automated multiple critical reports for stakeholders using SQL and ETL tool Atrium, thereby improving the turnaround time by more than 90%
- Automated extraction of charge-off data using SQL & Tableau, creating a dynamic weekly report to aid stakeholders in understanding and investigating trends over time.

Data Integration Analyst - TCS - Truist
SEP 2021 - FEB 2022

- Collaborated with stakeholders to successfully implement a $66 Billion merger project with over 18 million customers
- Leveraged Python to develop robust data integrity and validation reports, proficiently identifying outliers, mapping fields to target, and ensuring accurate data mapping and conversion.

Data Integration Analyst - TCS - RAC
SEP 2016 - AUG 2021

- Led the analysis, requirements gathering, and implementation of a critical service system replacement project for assets worth $6 billion and 2 million customers, coordinating with vendors and stakeholders including C-suite executives of the bank
- To reduce manual efforts in loan applications, I built an auto-decisioning model using Logistic Regression in Python. Applicants deemed highly likely to default(>65% probability) were analyzed further by agents leading to a 60% reduction in man-hours.
- Led impactful machine learning projects, including Fraud Detection, Telemarketing calling success, and Loan Default Prediction, demonstrating the potential for 40% man-hour reduction and enhanced operational efficiency.

Developer - TCS - BB&T
AUG 2013 - AUG 2016

- Worked on multiple projects including data migration projects as a data analyst and developer

PROJECTS

Back-of-the-Net-work - Soccer Roster Optimization

- Pioneered a novel algorithm for calculating chemistry between players and skillfully utilized data manipulation techniques and machine learning algorithms to optimize soccer team rosters, enhancing team performance.

Hotel Cancellations

- Used machine learning classification algorithms on hotel transaction data to predict reservation cancellations. Leveraged SMOTE technique to oversample under-represented classes, thereby balancing the classes to significantly improve learning

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EDUCATION

MS in Analytics (Business Analytics Track)
2021 - 2023 - Georgia Institute of Technology, Atlanta, GA

COURSES & CERTS

DSI Data Science Professional Certification

Actionable Learnings: Extracting & manipulating data using SQL. Application of statistical concepts such as hypothesis tests for measuring the effect of AB Tests. Utilizing Github for version control, and collaboration. Using Python for data analysis, manipulation & visualization. Applying data preparation steps for ML including missing values, categorical variable encoding, outliers, feature scaling, feature selection & model validation. Applying Machine Learning algorithms for regression, classification, clustering, association rule learning, and causal impact analysis for measuring the impact of an event over time. Machine Learning pipelines to streamline the ML pre-processing & modeling phase. Deployment of an ML pipeline onto a live website using Streamlit. Using Tableau to create powerful Data Visualizations. Turning business problems into Data Science solutions.

Natural Language Processing (NLP) - Hugging Face

Actionable Learnings: Conducted Sentiment Analysis on written sentences. This could be utilized in various situations including flagging customer complaints to a dedicated support team, improving customer satisfaction