ADVAIT RAMESH IYER

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EDUCATION

Master of Science in Business Analytics, Syracuse University, New York - **GPA: 3.6**   Aug 2018 - May 2020
Coursework: Data Mining, Information Visualization, DBMS, Data Warehousing, Statistics, Big Data Analytics

Bachelor of Technology in Mechanical Engineering, MANIT Bhopal, India - **GPA: 3.5**   Jul 2013 - Apr 2017
Coursework: Statistical Quality Control, Lean Six Sigma, Operations Research, Supply Chain Management

SKILLS

Languages R, Python, SQL, HiveQL, DAX
Database Hadoop, MS SQL Server, PostgresSQL, MS Access, SQLite
BI Tools MS Excel, Tableau, Power BI, Alteryx, RapidMiner, KNIME
Data Warehouse & Cloud Azure HDInsight, Azure Data Lake, Apache Hive, AWS
Statistics Linear & Logistic Regression, Hypothesis Testing, Time Series Forecasting, Probability, Sampling

EXPERIENCE

Data Scientist, Big Analytixs LLC   Jul 2021 - Sep 2021
- Deployed end-to-end ETL pipelines for 1 billion+ data points in parquet format within HDFS through Spark cluster
- Synthesized unit & API tests for proprietary R libraries and followed agile SDLC best practices in Jira and GIT
- Designed algorithms for smart meter data and workforce management use cases reducing losses and labor costs by 30%
- Delivered 50+ Tableau and Power BI big data operational dashboards using Azure Data Lake and Apache Hive

Data Analyst, AuditBoard Inc.   Jan 2021 - Jul 2021
- Lead ETL & data load automation support for multi-module Audit Management & Analytics SaaS platform
- Translated functional and design requirements into solution architecture and implemented workflows in Alteryx
- Saved operational time by 80% through development of pre-processing pipelines between source and target documents
- Trained new cohort of 10 data analysts and project leads on requirements gathering and product knowledge

Data Analyst & Research Assistant, Whitman School of Management, Syracuse University   Dec 2019 - Jan 2021
- Piloted alumni engagement analytics product development for University's institutional effectiveness strategy
- Automated weekly ETL workloads through SQL stored procedures reducing 10 man hours per week
- Implemented network analysis algorithms for clustering, centrality metrics and community detection using Python
- Achieved 42% satisfaction level from 200+ graduate students on weekly networking email and push notifications

Associate Data Analyst, SG Analytics Private Limited   May 2017 - Jun 2018
- Primary liaison for clients and operations excellence team, assisting delivery of data analytics solutions to global clients
- Spearheaded digital transformation with the operations team by training 200+ employees on SAP HANA ERP modules
- Led the analytics team in developing supply chain management solution to agricultural OEM, enabling 25% cost savings

PROJECTS

Human Resource Analytics for Employee Retention (R, Tableau)
Predicted employee retention with 70% accuracy by performing feature enginnering and training logistic, SVM, neural network, and random forest classifiers. Investigated biases amongst gender, diversity, and educational groups. Reported historical findings in RShiny dashboard, providing 5-year forecasts of employee metrics.

Georgia PPE Inventory Management System (Microsoft SQL Server, SSIS, SSAS, SSRS)
Designed Inventory Management Business Intelligence System for 100+ manufacturers and hospitals in Atlanta area. Designed schema and wrote stored procedures to insert PPE data into MS SQL Server database. Leveraged SSIS to build ETL pipelines for OLTP to MOLAP conversion as star schema, and delivered BI reports using SSAS & SSRS.

Taxi Delay Prediction Tool (Python, Apache Spark, ArcGIS, OSRM, Tableau)
Investigated delay patterns of 2 million+ trips in NYC through statistical analysis of spatial temporal data. Computed shortest paths, corrected multicollinearity, and reduced 91% of dimensions with LDA. Achived R-squared of 64% with GLMs, and 79% classification accuracy with Random Forest. Reported findings through ArcGIS story dashboards.

PUBLICATION

Dynamic Newsvendor Model for Optimistic and Pessimistic Policy-based Forecasting, Working Paper (Operations Research)