ADVAIT RAMESH IYER

+1 315 395 5193 | Atlanta, GA | aiyer01@syr.edu | linkedin.com/in/advait-iyer | advaitiyer.github.io

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, AWS RDS, Azure SQL
BI Tools MS Excel, Tableau, Power BI, Alteryx, RapidMiner, KNIME
Data Warehouse & Cloud Azure HDInsight, Azure Data Lake, Apache Hive, AWS Redshift
Statistics Linear & Logistic Regression, Hypothesis Testing, Time Series Forecasting, Probability, Sampling Methods

EXPERIENCE

Data Scientist, Big Analytixs LLC Jul 2021 - Sep 2021

- Delivered operational Tableau/PowerBI dashboards, and proprietary R libraries to clients in Utilities industry
- Deployed end-to-end ETL pipelines for 1 billion+ data points within HDFS through Spark cluster
- Synthesized unit & API tests for proprietary R libraries following agile SDLC best practices in Jira and GIT
- Designed algorithms for real-time billing and workforce optimization use cases reducing operational costs by 30%

Data Analyst, AuditBoard Inc. Jan 2021 - Jul 2021

- Led 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
- Mentored cohort of 10 data analysts and project leads on requirements gathering and product knowledge

Research Data Analyst, Syracuse University Dec 2019 - Jan 2021

- Piloted analytics product for alumni engagement to improve University's institutional effectiveness strategy
- Automated weekly ETL workloads through SQL stored procedures reducing 10 man hours per week
- Implemented network analysis algorithms for alumni community detection using NetworkX API in Python
- Achieved 42% satisfaction level from 70+ graduate students on weekly networking email and push notifications

Associate Data Analyst, SG Analytics Private Limited May 2017 - Jun 2018

- Liaised with global clients and operations excellence team in assisting delivery of data analytics solutions
- Spearheaded digital transformation by training 20+ employees on SAP HANA ERP module for invoice delivery
- Enabled $2 billion growth in projected revenue for retail client through curation of market intelligence strategy

PROJECTS

Human Resource Analytics for Employee Retention (R, dplyr, tidyverse, ggplot2, RShiny)
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, Tableau)
Designed Inventory Management Business Intelligence System for 100+ manufacturers and hospitals in Atlanta Metropolitan area. Synthesized schema and T-SQL scripts to bulk 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 Tableau.

Taxi Delay Prediction Tool (Python, Numpy, Pandas, Scipy, Scikit-learn, ArcGIS, OSRM)
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 storymaps.

PUBLICATION

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