

ADVAIT RAMESH IYER

aiyer01@syr.edu | (315) 395 5193 | www.linkedin.com/in/advait-iyer | <https://advaitiyer.github.io>

EDUCATION

M.S. in Business Analytics (STEM), Syracuse University, NY Aug 2018 – May 2020

Coursework: Data Visualization, Data Analytics, Business Analytics, Statistical Decision Making, Data Warehouse, Data Mining

B.Tech. in Mechanical Engineering, Maulana Azad National Institute of Technology Bhopal, IN Jul 2013 – Apr 2017

Coursework: Workflow Automation, Product Analytics, Computer Programming, Statistical Quality Control

TECHNICAL SKILLS

Languages: Python, R, SQL, NoSQL

Big Data Analytics: Apache Spark, Databricks, Hadoop, MapReduce

Libraries: Numpy, Pandas, Matplotlib, Scikit-learn, SciPy, PyTorch, Tensorflow, PySpark, tidyverse, dplyr, ggplot2, caret

Statistics: Generalized Linear Regression, Regularization, Logit, Probit, Resampling methods, Hypothesis testing

Operations Research: Solver, Linear Programming, Integer Programming, Transportation Problems, Stochastic Simulation

Business Intelligence: MS Excel, VBA, Tableau, MicroStrategy, Power BI, Alteryx, Google Analytics, SPSS, SAS

WORK EXPERIENCE

Graduate Research Assistant, Whitman School of Management, NY Sep 2019 – May 2020

Working research paper: *Dynamic newsvendor model for optimistic and pessimistic policy-based profit forecasting*

- Built inventory management system for perishable product under uncertain demand with Poisson and Weibull distributions
- Represented demand-order size relationship as a stochastic Discrete-Time Markov Chain model with 50+ transition states
- Simulated Monte Carlo episodes for optimistic, pessimistic and risk-neutral managers with 100 and 10,000 demand samples
- Predicted profit for all optimal policies using a deep neural network, and achieved root mean squared error of \$1 - \$5

Data Science Consultant, Whitman School of Management, NY Jan 2020 – May 2020

- Improved alumni engagement strategy of the school by performing analysis of 8,000+ alums' network
- Supervised data collection by leading a team of 3 analysts in gathering new data points via LinkedIn Sales Navigator
- Normalized data to 3NF by performing ETL with MS SQL, and reduced 130+ dimensions using eigenvalue decomposition
- Identified 5 highly active communities, and calculated centrality and influence metrics for all alums in the network

Associate Analyst (Market Research and Business Consulting), SG Analytics Private Limited, IN May 2017 – Jun 2018

- Liaised with C-level clients and MR team to gather requirements, test feasibility and scope the research hypothesis
- Trained 200+ employees on using invoice and delivery module on SAP HANA, driving the digital transformation initiative
- Led a 4 analyst team in building marketing mix model for an automobile company, conserving CAPEX worth \$1.5 million

ACADEMIC PROJECTS

Delivery and Quality Assurance Volunteer, Statistics without Borders Mar 2020 – May 2020

- Monitoring data collection and statistical analysis methodology for an NPO to help rural communities in Central America
- Reviewed the survey design and sampling plan, and suggested changes in both baseline and end-line surveys

Social network analysis of co-purchased products Oct 2019 – Dec 2019

- Discovered educational content as most popular using dimensionality reduction and k-means clustering of 2 million+ nodes
- Trained random-forest and multi-layer perceptron classifiers with centrality metrics and achieved 63% predictive accuracy

Predicting employees' salaries with socio-economic attributes Feb 2019 – Apr 2019

- Associated higher salary to gender, marital, and citizenship status and visualized the spread of distributions in RStudio
- Benchmarked the AUC-ROC curves of ML algorithms, achieving 85.6% accuracy with generalized Logistic regression

Analyzing smartwatch purchasing trends at SU Sep 2018 – Dec 2018

- Studied brand loyalty and consumer preference metrics through Qualtrics-powered survey of 211 students
- Identified 5 preference-based clusters and correctly targeted 63% of students in marketing the predicted product line

Improving Airline's customer experience strategy Sep 2018 – Dec 2018

- Devised an agile methodology to deliver an MVP of predictive analytics pipeline to boost customer satisfaction
- Performed regularized linear regression achieving R-square of 0.74, and identified key customer pain-points

LEADERSHIP

Student Assistant, Dean's Office at Whitman School of Management, NY Aug 2019 – May 2020

Coordinating daily operations, and helping students communicate suggestions and grievances with Upper Management

Vice President, Business Analytics Club at Syracuse University, NY Sep 2018 – May 2020

Organizing lectures and workshops to coach 50+ members improve their analytics and project management skills

LinkedIn Blogger: #statstoday is a Statistics and Data Science blog with over 40,000+ views Feb 2019 – Present