

Adityan Rajendran

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SUMMARY

An exceptional professional with 2.5 years of work experience as a **Data Scientist** across Manufacturing, Supply chain and Finance domains. Highly proficient in Time Series Analysis, Predictive Modelling and Feature Engineering. Excellent communicator, quick learner and a growing leader.

EDUCATION

The University of Texas at Dallas, Richardson, TX

Master of Science, Business Analytics (Data Science)

January 2019 – December 2020
Dean's Excellence Scholarship, **GPA 3.9**

Amrita Vishwa Vidyapeetham, Coimbatore, TN, India

Bachelor of Technology, Electronics and Communications Engineering

May 2010 – August 2014
Distinction (First Class), **GPA 3.7**

PROFESSIONAL EXPERIENCE

Data Scientist, ProcessMiner Inc., Atlanta, GA

January 2021 – Present

- Performed research on rare event modelling by training Gradient Boost and AdaBoost models to predict sheet breaks ahead of time in the paper manufacturing process (*R, SQL*)
- Mentored an undergraduate data science intern in conducting a literature survey of the predictive systems employed in the field of paper manufacturing
- Designed and implemented a simple and effective monitoring system to recommend the healthy operation of multiple input variables improving target adherence by 13% (*Python, SQL*)

Data Scientist (Intern), ProcessMiner Inc., Atlanta, GA

January 2020 – December 2020

- Implemented a time series AI solution** for a leading US based paper manufacturer to predict the quality of the paper that is under production, beforehand, with an accuracy of 80% based on real-time streaming sensor data (*R, SQL*)
- Designed and **implemented a novel random optimization algorithm** for balanced hyper-parameter tuning using space-filling curves and design of experiments resulting in 20% increase in accuracy of the prediction system (*Python, SQL*)
- Developed an open-source package** 'Timeoracle' using state-of-the-art techniques for Time Series Modelling and Forecasting that is set to have a public release in 2021 (*Python*)
- Built a prototype for an AutoML (Automated Machine Learning) framework to increase the company's AI footprint and speed up on-boarding of new customers slashing time efforts from 2 weeks to 8 hours per client (*Python, SQL*)
- Developed a novel root-cause system** to identify process variables that led to the production of a defective unit using PCA and Adaptive Lasso for a high dimensional real-time data stream reducing defect rate by 40% (*Python, SQL*)

Data Scientist, Infosys, Bengaluru, India

April 2017 – May 2018

- Actioned transactional data analysis from various banks and **performed extensive feature engineering** to improve the money laundering pattern detection system's accuracy by 15% (*R, SQL*)
- Performed RFM analysis to identify customer purchase patterns to create segments and to analyze customer behavior across segments to boost sales of Cisco products by at least 15% for each major customer segment (*Python, SQL*)
- Optimized data fetch time from ~14 mins to 0.5 secs by creating indices, revamping complex SQL queries and schema structure

Software Engineer, Infosys, Bengaluru, India

June 2014 – March 2017

- Spearheaded a team of 8 in developing a cloud solution that helped customers install 5+ products on a remote server with zero customer interaction contributing \$15M+ earnings to the client (*NodeJS, MongoDB*)

TECHNICAL SKILLS

Certifications: Practical Time Series Analysis (SUNY), Google Analytics (IQ), Certified Supply Chain Associate (CSCA)

Technical: Python, R, SQL, SAS, Hadoop, Apache Spark, AWS (S3, EC2), Google Analytics, Adobe Analytics, Tableau, Power BI, Pandas, NumPy, SciPy, Scikit-learn, R Shiny, TensorFlow, Keras

Machine Learning: Time Series Analysis • Regression • Random Forest • XGBoost • SVM • KNN • Clustering • Hypothesis testing • ANOVA • Naïve Bayes • A/B testing • Neural networks • Deep Learning • Statistical Analysis

Other Tech: NodeJS, Agile - Scrum PM, C++, Advanced Excel (VLOOKUP, VBA, Pivot Tables), Git, Shell Scripting

COMPETITIONS AND PROJECTS (7) - [GitHub](#)

Winner – Intelligence Analytics Challenge 5.0 – Fraudulent firm detection through Risk Analysis (Python – NumPy, Pandas)

- Tackled highly imbalanced fraud dataset using oversampling with SMOTE and predicted fraudulent firms with 88% accuracy

Top 10 finalist – Envision HackOverflow Challenge – (Tableau, Time Series Analysis) – [Link](#)

- Visualized maximum information using animated motion charts, performed time series analysis for establishing causality among 1k+ economic development indicators from 100+ countries

Billboard Year-end Hot 100 Songs Theme Prediction (R, R Shiny, NLP, Sentiment Analysis) – [Link](#)

- Performed text mining and sentiment analysis on 5000+ song titles and lyrics to determine the most frequented hit theme