

Jayant Raisinghani

jayant.raisinghani@utexas.edu | 203 W 39th Street, Austin, TX - 78751 | (512)-284-2649 | [linkedin.com/in/jayantraisinghani](https://www.linkedin.com/in/jayantraisinghani) | [raisinghani/jayant2611.github.io/](https://github.com/raisinghani/jayant2611) | medium.com/@jayantraisinghani | tableau.com/profile/jayant.raisinghani

EDUCATION

The University of Texas at Austin	Master of Science, Business Analytics	May 2020
RCOEM, Nagpur, India	Bachelor of Engineering, Electronics and Communication	May 2015

WORK EXPERIENCE

Mu Sigma Business Solutions Pvt. Ltd. – Bangalore, India **Sep 2019 – Mar 2019**

ML Engagements:

- Workforce Management Planner for Fortune 100 Financial Services Firm:
 - Reduced 20% overtime costs by enabling Operations team to plan and staff workforce 8 weeks in advance as per demand
 - Developed a planning tool using forecasting and shrinkage techniques for cross resource allocation
 - **Techniques used:** R, SQL, Excel, Tableau, HTML, Datameer, ARIMA, Holt-Winters, Dynamic Regression
- Inventory Management using Predictive Analytics for Fortune 100 Pharmaceutical Firm:
 - Saved \$6.5MM by determining products having high probability of stock out in coming 8 weeks across 90 markets
 - Collaborated with 20+ Global Supply Leaders to develop a predicting tool catering to their monthly logistics planning
 - **Techniques used:** SQL, Python, R, R Shiny, Excel, k-medoids clustering, RF Imputation, T-Bats, Fisher LDA, MARS, SVM, CSDT
- Demand Forecasting and Inventory Management for Multinational Retail Corporation:
 - Achieved 18% increment in sales of product categories by optimizing their quarterly assortment plans for stores in Chicago
 - Clustered stores in similar groups and optimized their product placement using demand forecast and shelf attributes
 - **Techniques used:** MySQL, Python, Excel, PowerBI, XGBoost, Linear Programming, k-means clustering

BI Engagements:

- Improving Digital Marketing for Fortune 100 Financial Services Firm:
 - Increased site enrollments by 10% by developing site performance reports and targeting customers using segmentation
 - Amplified the average conversion rate by 12% for IRA products by using A/B testing and Multivariate testing
 - **Techniques used:** R, Tableau, Hadoop, Adobe Analytics (clickstream data), K-means, Funnel Analysis
- Global Reporting Transformation for Fortune 100 Pharmaceutical Firm:
 - Developed an integrated data ecosystem and reporting structure for essential health business in AMEA and APAC region
 - Tailored datasets (>100MM rows) from multiple sources to create metrics, reports and statistics
 - **Techniques used:** DSS (Impala, HiveQL), Tableau, Redshift, Dropbox, S37
- Reporting Tower for a Fortune 100 Financial Services Firm:
 - Improved operational efficiency by 4% for US BFSI by building a framework consisting of Tableau reports providing a one stop shop to track all the operational metrics and R Shiny applications associated with associate performance tracking
 - **Techniques used:** SQL, Datameer, R/Rshiny, HTML, Tableau

ACADEMIC PROJECTS

- Loan Applications Forecasting (Aura Financial Services – Capstone Project; Austin, TX) **Jan 2020 – May 2020**
 - Improving the ROI by predicting the demand for loan applications and conversions in 38 locations of US region
 - Scraping external attributes like demographics, holidays etc. to incorporate with client's sales data for improving forecasts
 - **Techniques Used:** Excel, Tableau, Python, K-means, ARIMA, Selenium
- Crowd-Sourced Recommendation Engine for Beverages: Built a system to provide top 3 recommendations of beer products based on the attributes provided by the user using Spacy similarity and Vader sentiment analysis
- Notifier for Casualties Using Twitter Data: Identified real tweets associated with emergency situations using NLP, TF-IDF vectorization, SMOTE Sampling, Random Forest, SVM and PCA dimensionality reduction. Achieved 82% AUCROC
- Price Recommendation System for Airbnb Hosts: Used K-means imputation, Lasso regularization, SVM and XGBoost regression to predict optimum prices for rentals in Austin locality. Achieved 4.1 RMSE

- Developing Advertising Plans for Automobile Dealers: Segmented the car models using rule-based algorithms and identified key market advertising channels for each segment using marketing mix modeling. Achieved 0.92 R-Square (Adj)
- Casual Driving Risk Alert System (Kaggle top 12%): Used Sequential models and transfer learning (VGG16, ResNet, Xception) to determine driver activity. Achieved 92% accuracy and 0.24 log loss (http://bit.ly/casual_driving_risk_alert_system)
- Combined “Associated Press” and UNHCR data to create a report on migration patterns of refugees across the globe to US states (#IronViz: https://bit.ly/Migration_Trends_in_USA)

ADDITIONAL INFORMATION

- **Analytical Skills:** Statistical Analysis| Exploratory Data Analysis| Data Mining | Predictive Modelling | Sequential Models| CLTV | A/B Testing | Collaborative Filtering | Text Mining | Natural Language Processing| Optimization
- **Tools:** SQL (T-SQL, Impala, Hive, Spark) | Oracle OBIEE | MS Excel| SAS| Google Cloud Platform| Teradata| Redshift| ERP BI
- **Packages:** Python (keras, scikit-learn, pandas, numpy, seaborn, matplotlib, XGboost, Catboost) | R (caret, rpart, lpSolve, earth, teradataR, forecast)
- **Achievements:** Tableau SME for 5 different accounts at Mu Sigma Inc. | Leader of “Classroom Learning Program” initiative at Mu Sigma Inc. | Won 2 Spot Awards at Mu Sigma Inc. for agile project management, effective leadership and collaboration