

AAYUSH MITTAL

DECISION SCIENTIST

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SUMMARY

Self-driven proactive Analyst with 3 years of experience in up scaling business for Fortune 500 companies by providing suitable problem solutions through comprehensive analytical frameworks, insights generated from high impact reports and statistical models build by integrating math, technology and business

KEY SKILLS

TECHNOLOGIES

- Python
- MS-PowerPoint
- SQL
- MS-Excel
- Basic Tableau

TECHNIQUES

- Regression
- Classification
- Feature Engineering
- Sampling
- Feature Selection
- Machine Learning Pipeline
- Natural Language Processing
- Data Visualization

PLATFORMS

- Data bricks
- Palantir Foundry

PROJECTS

• **Credit Card Fraud Detection:** Paradigm is created to predict fraudulent credit card transactions with the help of machine learning models

• **House Price Prediction:** Identify the key factors influencing the pricing of the house and build model for prediction of prices using regression models

• **Factors identification using Clustering:** Categorize the countries using socio-economic and health factors to help NGO group to determine the countries that are in direst in need

• **Lead Scoring:** Build a framework which assign lead score from 0 to 100 to each of the leads which will then be used by the company to filter out most promising leads

EXPERIENCE

Trainee Decision Scientist, Mu Sigma (Jun`19 - Present)

Anomaly Detection | Process Optimization | UAE Leading Aluminum Production Company

- Analyzed imperative input and process parameters impacting the performance of the Aluminum production cells through descriptive and diagnostic analysis
- Designed an algorithm using predictive data modelling to detect anomalous behavior of production cell ahead of time which helps operators to take preventive measures
- Provide analytical and monitoring ad-hoc basis support by making analytical datasets as per use case and track the changes in critical parameter behavior with time
- Optimized development and deployment codes to have most optimize usage of available resources thus reducing the time for development of modules and cost of resources used by 50%
- Developed an automate evaluation tool to have regular monitoring upon the quality of deployed model predictions
- **Impact:** Developed an automated tool to identify highly critical issues pertaining to production loss well in advance saving around \$11M by higher production efficiency and team performance

Commercial Analytics | CSAT and Response Prioritization | US Leading Aviation Company

- Identifying most frequent and business imperative topics in customer's feedback and established a classification tool to categorize feedbacks into defined topics leveraging natural language processing tools
- Created a formula-based customer response scoring algorithm to prioritize corporate customer's feedbacks into priority buckets
- **Impact:** Created impact by developing end-to-end framework enabling sales managers to prioritize customers as per the feedback score which significantly minimizing the overall response time from 15 days to one day

Graduate Engineer Trainee, HMEL (Jul`18 – Jun`19)

Understanding various plants operations of refinery using concepts of chemical engineering and optimize the parameters for higher throughput

EDUCATION

- MSc., Data Science, LJMU (**Grade:** 76 % with Distinction)
 - **Thesis topic:** "Developing a scalable two-stage collaborative filtering-based recommendation system using product reviews and rating" Mar`19 – Jan`21
- PGD – Data Science, IIIT-Bangalore (**CGPA:** 3.88/4) Mar`19 – Mar`20
- B.Tech – Chemical Engineering, NIT, Jalandhar (**CGPA:** 8.12/10) Aug`14 – May`18