# **Syed Misbah**

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medium/data-decoded

Data Scientist - CPG, Retail, Manufacturing, Energy, F&B, Airlines

#### Lead, Data Science – Evalueserve

Mar '21 – Present

- · Leading a team of 22 data scientists for engagements across manufacturing, energy, and F&B
- Building a deep learning CNN based object detection model which identifies defects in galvanized plates for a steel manufacturing client – improving defect detection by 54%
- Improved pre-existing XGBoost and Random Forest classification models for an energy giant
- Designed & developed the data infrastructure for entire DIPP lifecycle for a \$10bn retail organization —
  including data harmonization, descriptive analytics & predictive modeling POC and production stack
- Overhauled the **MLOps** pipelines for three clients migrated from archaic legacy deployments to microservices based loosely coupled data infrastructure.

# Founder and Lead Instructor – Career Compass

Oct '20 - Feb '21

- Founded a data science career transition startup which aims to bridge the gap between the supply and demand for good data talent
- Facilitated 250+ professionals into top analytics firms and expanded team to 15+ instructors
- Transitioned and handed over to co-founder

Decision Scientist, Lead - Mu Sigma Inc.

Aug '19 - Sep '20

# SALES FORCE PLANNING & OPTIMIZATION | RUSSIAN PETCARE MANUFACTURER

- Lead a team of 6 analysts in a \$1.3MM engagement to build a sales force planning and optimization tool to maximize sales uplift or ROI and reduce expenditure
- Clustered outlets, measured impact of visits using regression & designed a Mixed Integer programming (MIP) based optimizer to generate visit plans in PowerApps
- ~3% sales uplift(+\$6.2MM) and expenditure reduced by 24%(\$0.5MM) -savings of 960 hrs/qtr effort

#### STRATEGIC REVENUE MANAGEMENT | US CPG GIANT

- Created a sales driver model for attribution of sales volume to key imperatives for around ~5,000 products with MAPE <20% using ElasticNet regression</li>
- Developed a Trade Promotion Optimization (TPO) framework which enabled the Account teams to design optimized promo plans leveraging Seasonality, Promotional Pricing, Promotional Execution, Product Distribution, Co-promotion and Cannibalization with inter and intra competitors
- The tool is powered by a linear optimizer on the sales driver model & builds a 52-week calendar detailing optimal price and execution points unlocking potential value of ~\$7MM/year

Decision Scientist - Mu Sigma Inc.

Aug '17 - July '19

# **COMPETITOR CLASH FORECASTING | US CPG GIANT**

- Developed a Competitor Clash Forecasting framework to help account managers design promotions
- The framework uses **Holt Winter** models to forecast the prices of competitor products and uses these prices to predict manufacturer and category sales through a **regression-based sales attribution** model
- 30% reduction in negotiation time and sales uplift of 2%(\$3.6MM) across four retailers in six months

# VIDEO OCCASION DETECTION & CLASSIFICATION | US CONSUMER DATA PROVIDER

- Implemented CNN based YOLO object detection algorithm for a video occasion detection tool to detect the class and number of objects present in a scene mAP 51.5%
- Built a XGBoost model to classify a scene into consumption, transaction or celebration based on the class and number of objects detected by YOLO – Accuracy 87% / AUC 0.82

#### **SKILLS**

Code
Python
PySpark
R
PowerBl
SQL
Neo4j
OR-Tools

Tools & Viz
Jupyter
Azure & DevOps
R
PowerBl
PowerBl
Powerapps

#### **Analytics and Math**

- Statistics Hypothesis testing & experiment design
- Exploratory Data Analysis (EDA)
- Regression (Linear and non-linear tree based)
- Classification (Logistic, Decision Trees, Ensemble – random forest/ XGBoost)
- Time Series Forecasting
- Deep Learning Convolution Neural Networks

#### **Business**

- Problem Solving
- Story Boarding
- Agile Management
- Stakeholder Management

#### **ORG INITIATIVES**

### Mentorship

- Project mentor 12 junior analysts
- Python tutor 20-member team

#### **Trainer**

 Trainer for internal teams on modeling and CPG Industry – trained 130 new industries

#### **HONORS**

## **Awards**

- 3 awards for technical capability, impact award for leadership & accountability
- Academic Excellence Award 2017

**Certification:** Decision Sciences -Certified by Mu Sigma for problem solving and analytical skills

#### **EDUCATION**

Bachelor of Engineering, IT

Visvesvaraya Technological University BIT, Bangalore | 2017

**First Class with Distinction** 

Secondary Education - CISCE

XII - 85% | X:88%