Syed Misbah

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medium/data-decoded

CPG, Retail, Manufacturing, Energy, Supply Chain, Airlines

Lead Data Scientist – Evalueserve

Mar '21 - Present

- Leading a team of 22 data scientists for multiple engagements across retail, food and beverage and energy sectors
- Manage multiple concurrent initiatives and projects of varying sizes/complexities and external vendor relationships, developing, coordinating and maintaining program and project milestones
- Improve pre-existing models and algorithms that affect the bottom line of the organization
- Designing & developing the data infrastructure for entire DIPP lifecycle for a \$10bn organization which
 included data harmonization, descriptive analytics and 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.

Senior Data Scientist – Mu Sigma Inc.

Aug '19 – Sep '20

SALES FORCE PLANNING & OPTIMIZATION | RUSSIAN PETCARE MANUFACTURER

- Leading 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 a regression model and designed a Mixed Integer programming (MIP) based optimizer to generate visit plans
- Developed a planning & reporting tool using PowerApps to design plans and report results
- Impact of ~3% incremental sales uplift(+\$6.2MM) and sales force expenditure reduced by 24%(\$0.5MM) and savings of 960 hours/quarter 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
- 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 for a winwin scenario with Retailers leading to reduction of ~2100 hrs. of manual effort/quarter
- Developed a tool in **PowerApps** atop the sales driver engine, to scale insights generated and unlock potential across all products and retailers in the US **unlocking potential value of ~\$7MM/year**
- The tool is powered by a linear optimizer on the sales driver model & builds a 52-week calendar detailing optimal price points, ideal promotion weeks, and optimal execution distribution points

Data 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 in accordance with forecasted competitor prices
- 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
- Built a dashboard in **PowerBI** for account managers to negotiate with category buyers to take data driven decisions to maximize sales considering ROI & retailer margin
- 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

CodeTools & VizPythonJupyterPySparkAzure & DevOpsRPowerBISQLNeo4jOR-ToolsPowerapps

Analytics and Math

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

HONORS

Awards

- 2 SPOT awards for technical capability, leadership and accountability
- Academic Excellence Award 2017

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

EDUCATION

Bachelor of Engineering

Instrumentation Technology
Visvesvaraya Technological University
BIT, Bangalore | 2017

First Class with Distinction

Secondary Education – CISCE

XII - 85% | X:88%