

# Shaurya Jain

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## EDUCATION

School of Arts and Sciences, Rutgers University, New Brunswick, NJ	Sep'23 - May'25
<i>Master of Computer Science (Specialization in Machine Learning/Artificial Intelligence)</i>	
SRM Institute of Science and Technology, SRM University, Chennai, India	Jul'14 - May'18
<i>Bachelor of Technology in Computer Science and Engineering</i>	

## TECHNICAL SKILLS

**Language:** Python, SQL, NoSQL, R, HTML, CSS

**Libraries & Frameworks:** Scikit-Learn, Pytorch, Plotly, Fbprophet, XGBoost, NLTK, Keras, Spark, Kubernetes, Docker, D3.js

**Tools:** BigQuery, Redshift, MySQL, Tableau, PowerBI, Metabase, Mixpanel, Sagemaker, Colab, Jupyter Notebooks

**Methods:** Machine Learning, Deep Learning, NLP, Gen AI, Unsupervised Modeling, Classification Modeling, Regression Modeling, Time Series Forecasting, Data Mining, Data Wrangling and Visualisation, Data Analysis, Statistical Modeling

## PROFESSIONAL EXPERIENCE

Novartis AG, East Hanover, NJ	Jun'24 - Present
<i>Intern, Data Science (Novartis Patient Support, Advance Therapy)</i>	

Zomato, Gurgaon, India	Jan'23 - Aug'23
<i>Senior Data Science (Inventory)</i>	

- Attained a **7% daily cart conversion** boost with **Time Series Forecasting (ARIMA, Facebook Prophet, Random Forest)**. Applied a dynamic **feedback loop**, **K-means anomaly detection**, resulting in an **8% availability** improvement, and a **2% dump** reduction. Employed **rule-based algorithms** to categorize **outliers**, providing actionable insights for **supply chain optimization**
- Utilized **Exploratory Data Analysis** and **Descriptive Statistical Analysis** to precisely forecast daily orders of perishables by analyzing quantity, sales, availability, date weights, and lift factor. Ensured accuracy in forecasting while maintaining **availability above 95%** and **minimising dump to below 3%**
- Engineered a hybrid event-centric model combining the **Holt-Winters Forecasting** algorithm with **Box-Cox transformation**. Integrated various features from events and sales data to enable efficient high-throughput product identification and precise quantity forecasting
- Designed algorithm utilising vendor capacity, PO transitions, and DOD inventory. Applied **Inferential Statistical Analysis** and introduced **Load Revision Factor**. Adjustments triggered if **equalled or exceeded 1.5**, **boosting procurement efficiency** by **20%**.

StepSetGo, Gurgaon, India	Jan'22 - Dec'22
<i>Data Scientist (Customer Engagement and Retention)</i>	

- Designed a hybrid system integrating **clustering**, **rule extraction**, and **decision tree** methodologies to predict customer segments across platforms, resulting in a notable **3% increase in conversion rates**
- **Boosted user response by 40%** through a **personalized recommendation system**. Utilized **rule-based** algorithms and **cosine similarity** to craft **personalized** combinations of activities, offers, and products for individual customers

Sociolla, Gurgaon, India	Jul'20 - Dec'21
<i>Data Scientist (Customer Engagement and Retention)</i>	

- Utilized **RFM Analysis**, **Unsupervised** algorithm, and a hybrid **Catboost** system to predict customer life expectancy and enhance user experience. Achieved a **monthly 7% reduction** in customer churn, ensuring sustained user engagement and business growth.
- Implemented a **Demand Forecasting model** to predict product demand using monthly average demand as a baseline against **SARIMA**, **RNN**, and **Facebook Prophet** algorithms. This model reduced the average **Out of Stock products by 60%**

Netomi, Gurgaon, India	Aug'18 - Jun'20
<i>Data Scientist (Chat Bot Performance)</i>	

- Developed a high-accuracy **Text Classification** model combining **rule-based** and **classification** algorithms with **NLP** techniques. Achieved an **80% reduction** in manual tagging efforts for message intent predictions

## ACADEMIC EXPERIENCE

**Synthetic Sales Forecasting: Elevating Projections with Generative Modeling** | *Python, Tensorflow, Keras, Scikit-Learn*

- Developed a specialized **generative model** for **time series forecasting**, tailored to **sales data**. Applied **transformation** for improved data distribution and implemented **K-Means clustering** for anomaly detection.
- Trained **Variational Autoencoder model** with **K-Fold cross-validation**, emphasizing **generative capabilities**. Generated and denormalized **synthetic data efficiently**
- Applied **Holt-Winters exponential smoothing** for precise **time series forecasting**, optimized parameters, and predicted future sales