Jeet Patel

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PROFILE

A data-driven individual with 7+ years of Data Science experience solving complex problems in Supply Chain domain

Specialties: Machine Learning, Deep Learning, Linear Optimization, Generative AI, Operations Research

Technologies: Python, SQL, R, PySpark, BigQuery, Snowflake, SparkSQL, Gurobi, Tableau, MLOps, Git, GCP, AWS

Data Science: Numpy, Pandas, ScikitLearn, XGBoost, PyTorch, Tensorflow, SparkML, Langchain, OpenAI, LLMs

PROFESSIONAL EXPERIENCE

Ascentt Systems Inc.   **Dallas, TX**
Principal Data Scientist - I   Jan 2024 – present

- Optimized inventory allocation pipeline, redefining constraint relaxations and improving non-terminal post-hoc run status management, resulting in a **4x reduction** in pipeline failures
- Led the development of an optimization engine with **Gurobi**, transforming aggregate forecasts into full configuration forecasts; Reformulated the same to improve scalability, cutting pipeline runtime by **60%**
- Onboarded & mentored **5** data scientists across **three** projects; Proactively performed code refactoring and maintenance to ensure seamless execution of production planning data science pipelines
- Architected the automation of the operational workflow of a **$80M** project by leading a team of **3**, implementing a human-in-the-loop (HIL) framework that reduced execution steps by over **40%**
- Deployed a Gen AI application using **Langchain** to extract contractual information from SoWs, saving **2 hours per document**; Integrated the solution with a web interface using **API Gateway** and **AWS Lambda**

American Eagle Outfitters   **San Francisco, CA**
Senior Analyst, Inventory Strategy & Optimization   Jul 2022 – Jan 2024

- Piloted and built an end-to-end **random forest** based Lost Sales model with **65%** balanced accuracy to estimate unit and dollar impact of missed opportunity stemming from out of stocks in the omni network
- Developed an optimization model to simulate creation of a dynamic middle mile network across **seven** distribution centers for efficient outbound direct-to-consumer (DTC) order fulfilment using **Gurobi**
- Designed the analytical layer to monitor cost and time based network KPIs for outbound DTC operations
- Formulated an optimization model to propose store-to-store transfers, effectively rebalancing inventory across network of **~950** stores, with incremental annual revenue opportunity worth **$100M;** Mentored a team of **5** graduate students to implement advanced business logic to elevate sell-through rate

Sears Holdings India   **Pune, IND**
Senior Business Analyst   Aug 2017 – Jul 2021

- Implemented an MLP-LSTM based neural network followed by a Mixture Density Network to forecast demand at a product level, gaining a relative improvement of **43.6%**
- Scaled a rule-based anomaly detection model from Python to Google BigQuery, reducing the runtime by **64x**, and integrated it into a Tableau dashboard to be used by business stakeholders
- Achieved a **25%** reduction in customer requests for Sears Home Service Helpline by creating a text and voice based chatbot using **AWS** services such as **Lex, Connect** and **Lambda**

EDUCATION

University of California, Davis   **San Francisco, CA**
Master of Science, Business Analytics   Aug 2021 - Jun 2022

Indian Institute of Technology (IIT), Kanpur   **Kanpur, IND**
Bachelor of Technology, Computer Science and Engineering   Jun 2013 – Jul 2017

LEADERSHIP AND ACHIEVEMENTS

- Led the curriculum committee of the Director's Student Advisory Committee (DSAC)
- Beta Gamma Sigma, International Honor Society for **Top 20%** students in AASCB accredited B-Schools