

Jeet Patel

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PROFILE

A data-driven individual with 4 years of analytics experience working for one of the oldest retail chains

Specialties: Statistical Exploration, Machine Learning, Hypothesis Testing, A/B Testing, Data Visualization

Technologies: Python, SQL, R, PySpark, PyTorch, TensorFlow, BigQuery, Teradata, Tableau, Adobe Analytics

EDUCATION

University of California, Davis

Master of Science, Business Analytics

San Francisco, CA

Expected Jun 2022

Indian Institute of Technology (IIT), Kanpur

Bachelor of Technology, Computer Science and Engineering

Kanpur, IND

Jun 2013 – Jul 2017

PROFESSIONAL EXPERIENCE

American Eagle Outfitters

Data Scientist, Practicum Project

San Francisco, CA

Sept 2021 – present

Partnered with multi-billion dollar fashion retailer to optimize store-to-store inventory transfer strategy

- Conducted EDA on **522K** products identifying potential incremental revenue opportunities worth **83M**
- Forecasted product-level demand at all stores, improving AEO's forecasting processes by **12%**
- Achieved a **32x** reduction in experimentation time of deep learning models using parallel processing
- Built data processing pipelines for pre-processing **270 GB+** data using Google BigQuery

Sears Holdings India

Senior Business Analyst

Pune, IND

Aug 2017 – Jul 2021

- Designed 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%**
- Implemented Autoencoder for anomaly detection, achieving an overlap of **58%** with rule-based model
- 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
- Developed a Question Answering model using Transformer architectures like Bert and Longformer for assisting users on querying terms and conditions of Sears Home Services manual
- Deduplicated & clustered **~100M** Sears members into households for targeted marketing
- Developed scripts to migrate project from Teradata to BigQuery, reducing the processing time by **~50%**
- Gathered requirements and created ETL pipelines & MicroStrategy dashboards to track business KPIs

ADDITIONAL QUALIFICATIONS

Projects:

[FIFA Position Prediction](#) - Predicted the position of soccer players using Random Forest with a **68%** F-1 score

[Aspect Based Sentiment Analysis](#) - Predicted polarity of aspect terms in reviews using LSTM with a **55%** F-1 score

[Neural Diary](#) - Condensed long videos into salient frames and generated corresponding text descriptions

[Real-Time Vehicle Recognition](#) - Segmented and classified vehicles from live video stream with a mean **73%** IOU

Leadership:

- Led the curriculum committee of the Director's Student Advisory Committee (DSAC)
- Served as the coordinator of Dance Club, handling a budget of INR 100K to conduct workshops & events

Activities:

- Beta Gamma Sigma, International Honor Society for **Top 20%** students in AACSB accredited B-Schools
- **Top 10** UC Davis teams at Adobe Analytics Challenge'21 in partnership with The Walt Disney Company
- Won **1st** prize in Sears Hackathon, implementing a supply chain framework on permissioned Block-Chain
- Won **1st** prize in Decrypt'17, a case study competition, out of **300+** pan-India entries