Jeet Patel

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PROFILE

Data-driven individual with a passion to unlock the latent patterns in data we generate to make better decisions.

Specialties: Statistical Exploration, Machine Learning, Deep Learning, Computer Vision, NLP, Data Engineering

Technologies: Python, SQL, R, PyTorch, PySpark, Tableau, Looker, Adobe Analytics, MongoDB, Git, Advanced Excel

EDUCATION

University of California, Davis	**San Francisco, CA**
Master of Science, Business Analytics	Expected Jun. 2022
Indian Institute of Technology (IIT), Kanpur	**Kanpur, IND**
Bachelor of Technology, Computer Science and Engineering	Jun 2013 – Jul 2017

PRACTICUM EXPERIENCE

Practicum Project American Eagle Outfitters	**San Francisco, CA**
Data Scientist, Practicum Project	Sept. 2021 – present

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

- Forecasted product demand at all stores using univariate time series models such as ARIMA, Prophet, and NBeats, improving AEO's forecasting processes by **12%**
- Developed a parallel processing pipeline and reduced experimentation time by **32x**
- Built data pipelines for pre-processing **270 GB**+ data using Google BigQuery

PROFESSIONAL EXPERIENCE

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%**
- 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 KPI's

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 with 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:

- Won **1st** prize in Sears Hackathon, implementing a supply chain framework on permissioned Block-Chain
- Won **1st** prize in Decrypt, a case study competition, out of **300+** pan-India entries