Jeet Patel

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PROFILE

Master of Science in Business Analytics candidate at UC Davis jeetp465.github.io

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

Technologies: R, SQL, Python, PyTorch, Tableau, Google Cloud Platform, Adobe Analytics, MongoDB, Git, Latex

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 Analyst, Practicum Project — Sept. 2021 – present
Partnered with multi-billion dollar fashion retailer to optimize store-to-store inventory transfer strategy

- Set up data pipelines for pre-processing **270 GB**+ data using Google BigQuery
- Experimented on univariate time series models like ARIMA, Prophet, NBeats, etc. for forecasting SKU level demand at all stores resulting in an improvement of **12%** over the existing forecasting method
- Worked on developing a parallel processing pipeline to reduce the experiment time by **32x**

PROFESSIONAL EXPERIENCE

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

- 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
- 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
- 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%**
- 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 an F-1 score of **68%**

Aspect Based Sentiment Analysis — Predicted polarity of aspect terms in reviews using **LSTM** with F-1 score of **55%**

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