Pranjali Yadav

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Creative data analyst with 2 years of professional experience, bringing statistical and predictive analytics expertise with ability to work within a range of data environments. Passionate about pursuing a career in Data Science and Analytics domain.

Skills

Programming Skills	Python, R, Matlab, SQL, DAX, Spark, AWS, Docker, Rest API, Github
Data Science Techniques	Linear & Logistic Regressions, Bagging & Boosting Algorithms, Decision Tree, Random Forest, Support Vector Machine,KNN, K-Means, Gradient Boosting, Deep Learning, Neural Networks, Text Mining, NLP
Platforms	Power BI, Tableau, Alteryx, Amazon Redshift, Microsoft Azure, Confluence, Jira

Education

Pennsylvania State University University Park, PA
Masters of Science in Industrial Engineering Graduated Aug 2021
University of Pune Pune, India
Bachelor of Science in Mechanical Engineering Graduated May 2019

Technical Experience

Data Scientist, Advance Analytics for Supply Chain Oct 2021 — Present
Georgia-Pacific LLC Atlanta, GA

- Developed time series forecasting model using ARIMA and Machine Learning to predict production and reduced RMSE by 9%.
- Designed 7 diagnostic tools by engineering complex data and analysing key parameters that affect performance to report Inventory, Out-of-Mode and Production data models to improve productivity by 91%.
- Analyzed existing data models to centralize and automate them, find trends, built statistical models to provide in depth analysis and recommendations to key stakeholders.

Data Science Co-op Jan 2021 — Jun 2021
Ahold Delhaize USA (Peapod Digital Labs) Quincy, MA

- Developed Named Entity Recognition(NER) transformer model using BERT embedding to improve the search recommendation of e-commerce website to improve cosine similarity score for 1000+ unique products.
- Constructed clusters for 1000+ unique retail products with various unsupervised learning methods like TSNE, DBSCAN to visualize effect of new transformer model.

Data Science Co-op (Supply Chain) Jun 2020 — Dec 2020
Ahold Delhaize USA (Retail Business Services LLC) Quincy, MA

- Developed machine learning based prediction model for On-Time In-Full delivery of inbound loads for third largest US grocery business with 91% recall and 86% accuracy.
- Identified the source of data in Azure data lake, designed pipelines for ETL (Extract,Transform,Load) and selected important features using p-value < 0.05 .
- COVID 19 Disruption Analysis: Designed an interactive dashboard to study changes before,during and after in working hours and productivity of 2000+ employees.

Academic Projects

Supply Chain Disruption & Optimization of Payoff in Trade Networks Jan 2020 — May 2020

- Simulated trade network of 50+ nodes to exhibit effects of decision of central nodes or high degree nodes in the network.
- Implemented Q-learning agent to find optimal route for maximum benefit using combinatorial optimization and reinforcement learning. Trained model 100,000 iterations.

Rapid Constraints Topology Optimization using Deep Neural Network (paper link) Jan 2020 — May 2020

- Developed and compared deep learning frameworks combinations of CNN regression and U-Net for generating rapid solutions to topology optimization design problems.
- Generated 40,000 images with resolution 32x64x5 with unique boundary and loading conditions in MATLAB.

Activities

Trail Maintenance, Rothrock State Forest	2019 — 2021
Center Coordinator,Bhumi NGO (NGO for educating underprivileged kids)	2017 — 2019