

# Pranjali Yadav

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Data Scientist

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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

<b>Programming Skills</b>	Python, R, Matlab, SQL, DAX, Spark, AWS, Docker, Rest API, Github
<b>Data Science Techniques</b>	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
<b>Platforms</b>	Power BI, Tableau, Alteryx, Amazon Redshift, Microsoft Azure, Confluence, Jira

## EDUCATION

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

## TECHNICAL EXPERIENCE

<b>Data Scientist, Advance Analytics for Supply Chain</b> <i>Georgia-Pacific LLC</i>	<b>Oct 2021 — Present</b> Atlanta, GA
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- 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, built statistical models to provide in-dept analysis and recommendations to key stakeholders.

<b>Data Science Co-op</b> <i>Ahold Delhaize USA (Peapod Digital Labs)</i>	<b>Jan 2021 — Jun 2021</b> Quincy, MA
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- 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 search queries with various unsupervised learning methods like PCA, TSNE, DBSCAN to visualize effect of new transformer model.

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

<b>Supply Chain Disruption &amp; Optimization of Payoff in Trade Networks</b>	<b>Jan 2020 — May 2020</b>
<ul style="list-style-type: none"><li>• Simulated trade network to exhibit effects of decision of central nodes or high degree nodes in the network.</li><li>• Implemented Q-learning agent to find optimal route for maximum benefit using combinatorial optimization and reinforcement learning. Trained model 100,000 iterations.</li></ul>	

<b>Rapid Constraints Topology Optimization using Deep Neural Network</b> ( <a href="#">paper link</a> )	<b>Jan 2020 — May 2020</b>
<ul style="list-style-type: none"><li>• Developed and compared deep learning frameworks combinations of CNN regression and U-Net for generating rapid solutions to topology optimization design problems.</li><li>• Generated 40,000 images with resolution 32x64x5 with unique boundary and loading conditions in MATLAB.</li></ul>	

## ACTIVITIES

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