

**CONTACT INFORMATION**

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**HOBBY PROJECT**

- Project1  
http://project1.juspreet51.in
- Project2  
http://project2.juspreet51.in
- Project3  
http://project3.juspreet51.in
- Project4  
http://project4.juspreet51.in

**SKILLS**

- Machine Learning:**  
*Supervised and Unsupervised Learning: Linear Regression, Logistic Regression, SVM, KNN, Decision Tree and Random Forest, Ensemble Models, K-means Clustering, DBSCAN Clustering*
- Deep Learning:**  
*Neural Network, CNN, RNN, Transfer Learning, Computer Vision, Natural Language Processing*
- Tools:**  
*ARIMA, Pandas, Numpy, Matplotlib, Seaborn, Prophet, scikit-learn, TensorFlow, Keras, NLTK, OpenCV, Yolo V3, Git, Databricks, Datarobot, Azure Taskboard, Jira & Kanban Board, IBM Blue Works*
- Data Visualization:**  
*PowerBI*
- Deployment:**  
*Flask & Docker*
- Misc:**  
*Python, SQL & Statistics*

**RELEVANT COURSEWORK**

- ISL: Trevor Hastie & Robert Tibshirani
- HoML-2e: Aurelien Geron
- Multivariate Calculus: James Stewart
- Machine Learning: Andrew Ng
- NLP: DeepLearning.AI

**Awards & Accomplishments**

- Sport Award:** Mu Sigma, Sept 2021  
*excellent work in consistent quality delivery & team management*
- Andrew Ng's team coordinator**  
*coordinated meetups and QnA session with Andrew Ng and his DeepLearning.AI team*
- Developed My Own Python Package**  
*pip install juspreet51*

**FUTURE ENDEAVORS**

- The Deep Learning:** Ian Goodfellow  
blog.juspreet51.in: An effort to bring zero cost information for public

# JASPREET SINGH

## TRAINEE DECISION SCIENTIST MU SIGMA BUSINESS SOLUTIONS PVT. LTD.

### SUMMARY

A firm believer in learning over knowing and extreme experimentation  
I am passionate about working on ideas that are innovative and impactful

### WORK EXPERIENCE

#### Random Forest Based Production Halts Reduction

Sept 2020-Jan 2021

- Built a Random Forest based fault prediction model having 88% accuracy, for the global leader in Aluminum Conglomerate
- Proposed solution lead to savings of over \$30MM annually, which was attributed to precise prediction of unplanned maintenance events & reduced shutdown due to operational uncertainty
- Deployed the model via CI/CD implementation in Azure DataBricks

#### Neural Networks Based Monthly Sales Prediction

May 2020 – Sept 2020

- Developed Recurrent Neural Network (RNN) based sales forecasting model to achieve weekly demand forecasting at Product-Store level
- Reduced Out of Stock occurrences by 6%-20% (for various retail product-categories), compared to per-existing predictions
- Utilized Alteryx for ETL and delivered solution using Python, Keras and TensorBoard

#### Computer Vision & Deep-Learning based Brick & Mortar Store Analysis

Oct 2019 – Feb 2020

- Implemented YOLOv3 based solution to achieve improved insights on customers behavioral pattern in physical stores
- Assisted clients to create a future ready experience for retail customers, with minimal manual interventions of store staff
- Actionable business adoption included improved resource management, improved aisle and product placements, queue management, adoption of Scan&Go counters, etc.

#### Natural Language Processing Based Early Trends Detector

Dec 2018 – Nov 2019

- Accomplished NLTK based early-stage trend detector for one of the global leader in retail to enhance their inventory optimization
- Eliminated client's sourcing & procurement team's invisibility to unseen trends, leading to 3 fold decrease in Out of Stock scenarios
- Transformed solution was adopted by clients as their official banner product for 2019 Black Friday Sale

### EDUCATION

**Bachelor of Technology in Computer Science & Engineering**  
Lovely Professional University

#### Class XII-CBSE

Natwar Gov Multipurpose School

#### Class X-ICSE

Carmel Convent Senior Secondary School