





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>

RELEVANT COURSEWORK

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

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

Awards & Accomplishments

Sport Award: Mu Sigma, Sept 2021

excellence work in consistent quality delivery & team management

Deep Learning and Neural Network Trainer

*trained 100+ company inductees on Neural Network based projects
and technologies*

Andrew Ng's team coordinator

*coordinated meetups and QnA session with Andrew Ng and his
DeepLearning.AI team*

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, achieving 88% accuracy, for the global leader in Aluminum Conglomerate
- Reduced aluminum production halts, with precise prediction of potential halts and backlogs
- 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
- 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