JASPREET SINGH

TRAINEE DECISION SCIENTIST
MU SIGMA BUSINESS SOLUTIONS PVT. LTD.

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
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

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 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