JASPREET SINGH

TRAINEE DECISION SCIENTIST
MU SIGMA BUSINESS SOLUTIONS PVT. LTD.

CONTACT INFORMATION

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HOBBY PROJECTS

Juspreet51:Developed Library for EDA & Modeling
pip install juspreet51
Campaign Analysis
http://campaign_analytics.juspreet51.in
Student Loan Default Prediction
http://card_default_preds.juspreet51.in
Emoji Suggester
http://project4.juspreet51.in

RELEVANT COURSEWORK

HoML 2nd Edition:
Hands on Machine Learning authored by Aurelien Geron
Multivariate Calculus:
Authored by James Stewart
Machine Learning:
Andrew Ng's Coursera course
NLP Specialization:
Ongoing: Course 3 of 5 courses specialization by Deeplearning.AI

Awards & Accomplishments

Sport Award: Mu Sigma, Sept 2021
For excellent work in delivery & team management

Andrew Ng's team coordinator
Coordinated meetups and QnA session with DeepLearning.AI team

Developed ML Algorithms From Scratch
Implemented Regression and Classification algorithms from scratch in python for my python library Juspreet51

FUTURE ENDEAVORS

The Deep Learning:
A book by Ian Goodfellow, also called as Bible of Deep Learning
blog.juspreet51.in:
An effort to bring zero cost information for public

INTEREST

Reading:
Philosophy and Literature
Blogging:
Artificial Intelligence and Machine Learning
Sports:
Boxing and Minecraft

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

Computer Vision & Deep Learning based Brick & Mortar Store Analysis
Oct 2019 – Feb 2020

- Implemented YOLO v3 based solution to achieve improved insights on customer's behavioral and shopping 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 aisles, product placements, queue management and adoption of Scan & Go (contact less purchase) counters

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

SKILLS

Machine Learning:
Linear Regression, Logistic Regression, SVM, KNN, Decision Tree & Random Forest, Ensemble Models, Clustering
Deep Learning:
Neural Network, Convolutional Neural Network, Natural Language Processing
Tools:
Pandas, Numpy, Matplotlib, Seaborn, scikit-learn, ARIMA, Prophet, TensorFlow, Keras, NLTK, OpenCV, Yolo V3, Git, Databricks, Datarobot, Azure Taskboard, IBM Blue Works, PowerBI
Deployment:
Flask & Docker
Misc:
Python, SQL, Statistics & Probability

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