JASPREET SINGH

TRAINEE DECISION SCIENTIST
MU SIGMA BUSINESS SOLUTIONS PVT. LTD.

CONTACT INFORMATION

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HOBBY PROJECTS

Developed Personal ML Library
pip install juspreet51
Emoji Recommender
http://project4.juspreet51.in
Student Loan Default Prediction
http://student_default_preds.juspreet51.in
Campaign Analysis
http://campaign_analytics.juspreet51.in

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

RELEVANT COURSEWORK

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

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   Team Size: 11
- Assisted an aluminum conglomerate to reduce unplanned maintenance shutdown, production halts and improve equipment life cycle
- Proposed Random Forest based predictive solution lead to operational savings of over $30MM annually in production deferral costs
- Tech Stack Used: Python, Tableau, Tensorboard, Azure DataBricks (CI/CD deployment)

Computer Vision & Deep Learning Based Brick & Mortar Store Enhancement
Oct 2019 – Feb 2020   Team Size: 3
- Understanding offline customer's behavior patterns to make better decisions in store operations (staff management, product placements, etc)
- Implemented in-store video analytics solution to deliver hourly data about customer entry, exit & in-store count, number of aisle visits, traditional checkout counter count, Scan-&-Go counters encouragement etc
- Tech Stack Used: Python, YOLO v3, OpenCv

Natural Language Processing Based Early Trends Detector
Dec 2018 – Nov   Team Size: 6
- Catching trends in market at their nascent stage
- 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
- Tech Stack Used: Python, NLTK, Tableau

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