JASPREET SINGH

TRAINEE DECISION SCIENTIST
MU SIGMA BUSINESS SOLUTIONS PVT. LTD.

CONTACT INFORMATION

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HOBBY PROJECTS

JusPy: ML Framework
pip install juspy

Emoji Recommender
http://emoji.juspreet51.in

Student Loan Default Prediction
http://student-default-preds.juspreet51.in

Campaign Analysis
http://campaign-analytics.juspreet51.in

Awards & Accomplishments

Published paper: Information Theory in Machine Learning
http://paper2.juspreet51.in

Developed ML Algorithms From Scratch
Implemented Regression and Classification algorithms from scratch in python

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

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

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:
A not-for profit 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 — DEC 2018-TILL DATE

Random Forest Based Production Halts Reduction

- 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, Scikit-Learn, Tensorboard, Azure DataBricks

Neural Networks Based Demand Forecasting

- One of the leader in asian retail industry wanted to improve their demand forecasting framework to reduce Out of Stock occurrences
- Developed Recurrent Neural Network (RNN) based demand forecast model to achieve weekly demand forecasting at Product-Store level
- Reduced Out of Stock occurrences by **6%-20%** (for various categoires-SKUs), compared to per-existing predictions
- Tech Stack Used: Alteryx, Python, Keras and TensorBoard

Early Trends Detector

- Eliminated sourcing & procurement team's invisibility to unseen trends
- Developed Natural Language Processing based model lead 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:
VS Code, Flask & Docker
Misc:
Git, Probability, Python, SQL, Statistics

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