

CONTACT INFORMATION

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HOBBY PROJECTS

- JusPy: ML Framework**
pip install juspy
- 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

- 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

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 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, Scikit-Learn, Tensorboard, Azure DataBricks

Computer Vision & Deep Learning Based Brick & Mortar Customer Analysis

- 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

Early Trends Detector

- Dec 2018 – Nov 2019 Team Size: 6
- 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:

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