JASPREET SINGH

DATA SCIENTIST
J P MORGAN CHASE & CO.

SUMMARY

A firm believer in learning over knowing and extreme experimentation
I am passionate about working on ideas that are innovative and impactful

CONTACT INFORMATION

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EDUCATION

Masters of Technology
BITS Pilani

Bachelor of Technology
Lovely Professional University

Clas XII | Natwar Gov Multipurpose School
Class X | Carmel Convent Senior Secondary School

HOBBY PROJECTS

JusPy: ML Framework
pip install juspy | PyPI Page

Computer Vision Based Store Customer Analysis
http://storeanalysiscv.jaspreetblogs.in | Artifact

Emoji Recommender
http://emoji.jaspreetblogs.in | Artifact

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

Campaign Analysis
campaign-analytics.juspreet51.in

Awards & Accomplishments

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

Nominated: Rising Star of the year
JP Morgan Commercial Banking - GF&BM

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

RELEVANT COURSEWORK

HoML 3rd 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

INTEREST

Reading:
Philosophy and Literature
Blogging:
Artificial Intelligence and Machine Learning
Sports:
Boxing, Minecraft& PS5

WORK EXPERIENCE   2018-TILL DATE

Attention & Deep Learning Based Email Classifier

- Service & Implementation team had to go through 100s of incoming eMails in a day to comprehend and tag relevant team for issue resolution
- Implemented Attention based neural network using Tensorflow to understand and classify emails into subsequent categories and teams
- Delivered solution reduced manual labor required to identify and tag emails to teams, for more than 150 mailboxes
- *Tech Stack Used: Python, Tensorflow, JupyterLab, AWS*

XGBoost Based Similar Client Finder

- Currently numerous billing platoform are used by JP Morgan's commercial banking unit, tailoring to client's specificity which adds extra burden on operations and maintenance cost
- Proposed XGBoost based classification solution lead to operational savings in production deferral costs through strategic client migration
- Provided solution was used to segregate for migration plan
- *Tech Stack Used: Python, Tableau, Scikit-Learn*

Natural Language Processing Based Request Categorization

- Eliminated Client Onboarding & Servicing team's invisibility to unseen trends and change in key issue subjects
- Developed Latent Dirichlet Allocation based topic model, leading to automated category and subject identifier, based on recent requests
- Transformed solution was adopted by Commercial Banking's client service team to understand change in client issues and better process optimization
- *Tech Stack Used: Python, NLTK, sklearn*

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, Scikit-Learn, Azure DataBricks, 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, GIT
Deployment:
IntelliJ, VS Code, Flask, Azure Databricks, AWS OmniAI, Jules, Airflow
Misc:
Git, GitHub, Probability, Python, SQL, Statistics