

CONTACT INFORMATION

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EMPLOYMENT HISTORY

JPMorgan Chase - 2022-Present
MuSigma - 2018-2022

EDUCATION

Masters of Technology | AIML
BITS Pilani

Bachelor of Technology
Lovely Professional University

Class XII | Natwar Govt. Multipurpose School

Class X | Carmel Convent Senior Secondary School

HOBBY PROJECTS

JusPy: Self Developed ML Library
[pip install juspy](#) | [PyPI Page](#)

Computer Vision Based Retail Store Analysis
storeanalysiscv.jaspreetblogs.in | [Demo](#)

Neural Network Based Emoji Recommender
<http://emoji.jaspreetblogs.in> | [Result](#)

Classification Based Student Loan Default Prediction
student-default-preds.jaspreetblogs.in

RELEVANT COURSEWORK

HoML 3rd Edition:
Hands on Machine Learning authored by
Aurelien Geron

Linear Algebra: Gilbert Strang

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:
Badminton, Minecraft & PS5

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

WORK EXPERIENCE (5years+)

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 NLP solution reduced manual labor required to identify and tag emails, for more than 150 different mailboxes
- Tech Stack Used:** Python, Tensorflow, Attention, BiDirectional LSTM, AWS

Classification Based Similar Client Finder

- Currently numerous billing platform 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, Classification

Natural Language Processing Based Request Categorization

- Eliminated Onboarding & Servicing team's invisibility to unseen trends and change in key issue subjects
- Developed Latent Dirichlet Allocation based topic modeling & pattern recognition, leading to automated category and subject identifier
- 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 Manufacturing 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(CNN), RNN, Attention, BERT, Natural Language Processing, Computer Vision

Tools:

TensorFlow, Keras, SciKit Learn, Pandas, Numpy, Matplotlib, Seaborn, scikit-learn, ARIMA, Prophet, NLTK, OpenCV, Yolo V3, Git, Databricks, Datarobot, Azure Taskboard, IBM Blue Works, PowerBI, GIT

Deployment:

IntelliJ, VS Code, Azure Databricks, AWS, Jules, Airflow

Misc:

Git, GitHub, Python, SQL, Probability, Statistics