

# 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

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 Similarity 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*

#### Natural Language Processing Based Automated 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

### 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](#)

Computer Vision Based Store Customer Analysis  
[http://storeanalysiscv.jaspreetblogs.in](#)

Emoji Recommender  
[http://emoji.jaspreetblogs.in](#)

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