### **(1)** CONTACT INFORMATION

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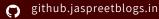


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EMPLOYMENT HISTORY JPMorgan Chase - 2022-Present



# **EDUCATION**

Masters of Technology | AIML **BITS Pilani** 

MuSigma - 2018-2022

Bachelor of Technology **Lovely Professional University** 

Clas 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.Al



# INTEREST

## Reading:

**Philosophy and Literature** 

#### Blogging:

**Artificial Intelligence and Machine Learning** 

**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

Git, GitHub, Python, SQL, Probability, Statistics