Shubham Gupta (Python Developer)

Experience in executing full life-cycle development projects; ramping up projects within time, budget & quality parameters, as per project management & best practice guidelines, targeting assignments in **Data Science, Machine Learning and Deep Learning** with an organization of high repute

Current Location : **Gurgaon**

+91-8890061175　　　　　　　　　　　　　✉ **sudeshgupta2024@gmail.com**

🧠 Profile Summary

- **Achievement-driven professional** with an experience of more than **4 years.**
- Experience in architecting applications with **Algorithms, Data Structures, Binary Tree, Artificial Intelligence, Machine Learning, Deep Learning, which includes CNN, Recurrent Neural Network with Python**.
- Skilled in libraries such as **Sklearn, Numpy, Pandas, Matplotlib, Seaborn, Tableau for Data Visualization, Keras, SQL Server.**
- Rich experience in all phases of the **software development life-cycle** (requirements, design, development, testing, release, support), utilizing multiple development methodologies, including **Design Patterns, Object Oriented Programming.**
- Expertise in manipulating and analyzing complex, high-volume, high-dimensionality data from varying data sources and using Object Oriented Database.
- Deployment of Machine Learning and Deep Learning Models using PAAS such as Heroku.
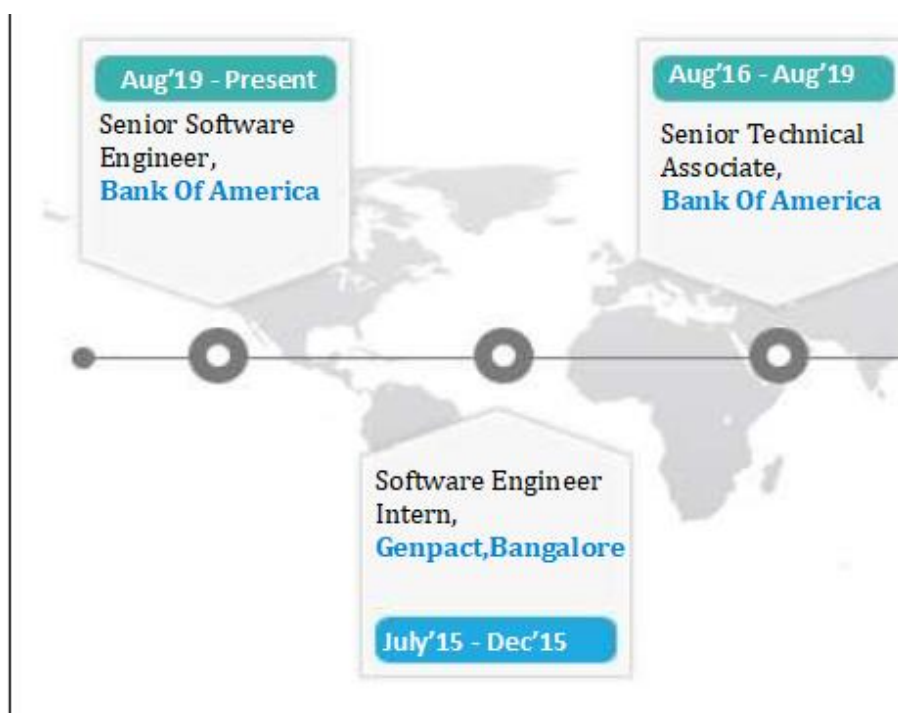
📊 Core Competencies

Python	★★★★★
NO SQL Database	★★★★★
Numpy, Pandas, Matplotlib & Seaborn	★★★★★
Machine Learning	★★★★★
Convolutional Neural Networks	★★★★★
Artificial Neural Networks	★★★
Predictive Modelling	★★★★★
Computer Vision	★★★
Quantitative Analysis	★★★★★
Docker	★★★★★
Deep Learning	★★★★★
Tableau	★★★★★

👤 Career Timeline

Aug'19 - Present
Senior Software Engineer,
Bank Of America

Aug'16 - Aug'19
Senior Technical Associate,
Bank Of America

Software Engineer Intern,
Genpact,Bangalore

July'15 - Dec'15

Work Towards Data Science Community

Github url: https://github.com/sgupta117
Medium url: https://medium.com/@gupta020295

💼 Work Experience

Key Result Areas:

- Working on projects to compute various portfolio level (Credit Valuation Adjustment, Funding Valuation Adjustment, DVA) metrics that relate directly to the bank's external trade set.
- Working on a Bank of America Merrill Lynch's integrated trading, position management, pricing and risk management python based platform 'Quartz '.
- To cope up with timelines and timing requirements of upstream applications we use "Grid computing", various data algorithms, accurate Data structures and maintainable design patterns.
- Developing a model for predicting the "Pricer type" and to cluster the same information together using various machine Learning technologies.
- Working closely with the Global team to implement the new enhancement and to optimize the performance of the current model.
- Contributing in analyzing day over day data and reports to verify the different numbers and performances of the difference batches having details of the different counter parties bank is associated.
- Handling of final client data and uploading it to the downstream system to make sure everything is fine.
- Providing internal corporate training within the company for Python, Machine Learning and Deep Learning.

🎓 Education

B.E(Hons.). (Computer Science Engineering) from **Birla Institute Of Technology and Science, Pilani,** Rajasthan University.

Technical Skills

Programming Languages: Python, Machine Learning, Artificial Intelligence, Deep Neural Networks, Convolutional Neural Network, Tableau, Sklearn Libraries, C.
Databases: NO SQL, MongoDb, MySQL, Object Oriented Database.

Platforms and Misc.: Anaconda, Jupyter Notebook, Spyder IDE, Visual Studio 2017,VS 2016, Anaconda, Windows XP/W7/W8

Personal Details

Date of Birth: 2nd February 1995
Languages Known: English, Hindi
Address: Plot No. 45, Street 2B, Sector 22A, Gurgaon – 122016, Haryana

Projects Undertaken

1. **Project:** **Build a model to cluster similar errors together using K-Means**
   Technology: Machine Learning, Python, NLP, Sklearn, Pandas, Numpy, Matplotlib
   Duration: 2 months
   Role and Responsibilities:
   Description: - Cluster similar errors messages for each group using Natural Language

   Processing and K Means Clustering. Used TF-IDF Vectorization for the model and Distance Matrix (Euclidean-Distance) for finding distance between vectors.
   Used "Silhouette-Score" for determining the number of clusters and N-Gram Model was used to extract the exceptions.

2.	**Project:**	**Face mask detection using Keras, TensorFlow, Mobile Net and Open CV**
	Technology:	Deep Learning, Python, Sklearn, Open CV, Numpy, Mobile Net
	Duration:	**1** months
	Role and Responsibilities:	Individual Developer
	Description:	- Implemented a face mask detection model using Deep learning MobileNetVC2 transfer learning architecture and Open CV. - Real-time application to detect face mask for safety purposes due to the outbreak of COVID-19.

3.	**Project:**	**IPL First Innings Score Prediction**
	Technology:	Machine Learning, Linear Regression, Sklearn, Pandas, Numpy
	Duration:	**1** months
	Role and Responsibilities:	Individual Developer
	Description:	1) End to End Implementation of "IPL First Innings Score Prediction" Machine Learning Model to find out the predicted score based upon the previous performances of the teams. 2) Rest API using Flask and Deployed over Heroku Cloud: Web App Link : https://ipl-score-predictor-app.herokuapp.com/

4.	**Project:**	**Tweet-Analyzer**
	Technology:	Machine Learning, Tweepy library, Sklearn, Pandas, Numpy
	Duration:	**15** days
	Role and Responsibilities:	Individual Developer
	Description:	1) A cool web app to analyze the tweets of your favorite personalities on Tweeter. 2) Perform the Sentiment Analysis on the last 1000 recent tweets of a person and create a word cloud out of it. 3)Created front end using Stremlit library and deployed over Heroku Cloud. Web App Link: https://tweeter-analyzer-app.herokuapp.com

Certificates

- ✓ Udemy Machine Learning A-Z: *Hands-On Python In Data Science*
- ✓ Udemy Deep Learning A-Z: *Hands on Artificial Neural Networks*
- ✓ Udemy *Scikit-Learn* in Python for Machine Learning Engineers
- ✓ Deep learning: *Convolution Neural Network in Python*