

Shubham Gupta

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 **Python, Data Science, Machine Learning and Deep Learning** with an organization of high repute

Location Preference: **Gurgaon**

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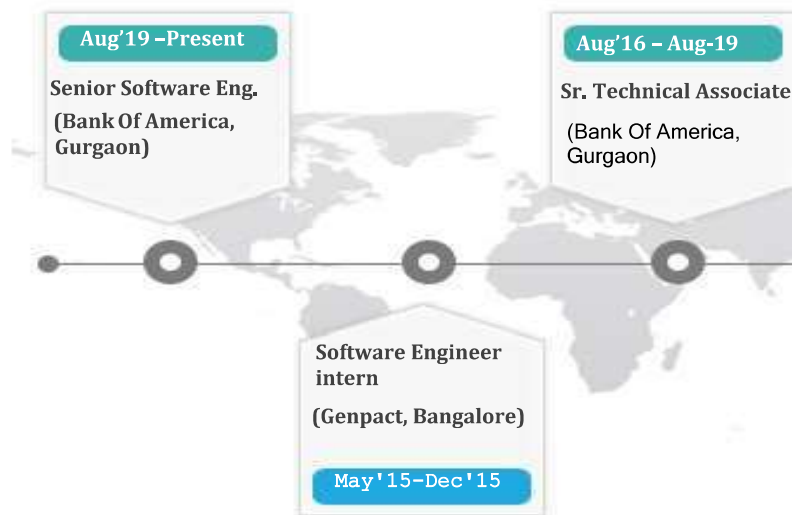
Profile Summary

- Achievement-driven professional with an experience of more than 4 years.
- Experience in architecting applications with Algorithms, Data Structures, Binary Tree, Machine Learning, Deep Learning, which includes CNN, Recurrent Neural Network with Python.
- 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.
- Deployment of Machine Learning and Deep Learning Models using PAAS such as Heroku and using Flask web API.
- Expertise in manipulating and analyzing complex, high-volume, high-dimensionality data from varying data sources and using Object Oriented Database.
- Skilled in libraries such as Sklearn, Numpy, Pandas, Matplotlib, Seaborn, Tableau for Data Visualization, Keras, SQL Server.
- Experience in working in the finance domain , Handling Risk Management, Generating Risk Numbers in order to mitigate the risk of any particular asset for future perspective .

Core Competencies

Python Programming	★★★★★
Machine Learning	★★★★★
No Sql Database	★★★★★
Predictive Modeling	★★★★★
Object Oriented Programming	★★★★★
Computer Vision & Image Processing	★★★★★
Quantitative Analysis	★★★★★
Training & Development	★★★★★
Deep Learning	★★★★★
Docker	★★★★★

Career Timeline



Work Towards Data Science Community

Github url : <https://github.com/sgupta117>

Medium url : <https://medium.com/@gupta020295>

Portfolio App: <https://portfoliosgupta.herokuapp.com/>

Work Experience

Key Result Areas:

- ▶ Working on Risk Managements projects to compute various portfolio level (Credit Valuation Adjustment, Funding 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 time lines and timing requirements of upstream applications we use "Grid(server) computing", various algorithms, accurate Data structures and maintainable design patterns.
- ▶ Developing a model for predicting the "pricer type" for a transaction using Random Forest algorithm. Predicting the probability of getting default for a counterParty bank is in contract with using Deep Learning "Pytorch" framework.
- ▶ 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 transactions.
- ▶ 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 on 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, Recurrent Neural Network, LSTM, Tableau, Sklearn Libraries, C.

Databases: NO SQL, MongoDB, MySQL, Object Oriented Database.

Platforms and Misc.: Anaconda, Jupyter Notebook, Spyder IDE, Google Colab, Visual Studio 2017, VS 2016, Anaconda 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 (Data Science)

- Project:** **Build a model to cluster similar errors together using K-Means**
Technology: Machine Learning, Python, NLP, Sklearn, Pandas, Numpy, Matplotlib
Duration: 6 months
Role and Responsibilities:
 - 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.**Description:**

2. **Project:** **Stock Price Prediction**
- Technology:** Deep Learning, Python, Sklearn, Numpy, Matplotlib
- Role and Responsibilities:** Individual Developer
- Description:**
- Created a system to predict future stock prices for a company using LSTM Recurrent Neural Network.
 - Plotting a future prediction graph to show how could be the market behavior for that particular company.
3. **Project:** **IPL First Innings Score Prediction**
- Technology:** Machine Learning, Linear Regression, Sklearn, Pandas, Numpy
- Duration:** 3 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:** **Twitter Sentiment Analysis**
- Technology:** Machine Learning, Tweepy library, Sklearn, Pandas, Numpy
- Duration:** 2 months
- 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>

5. **Portfolio Django App** : Created a personal Portfolio web-app using Django which included all the personal details, **Data Science projects, Blogs** and contact details.

Web App Link : <https://portfoliosgupta.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*