

Shivangi Gupta

Data Scientist

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SUMMARY

3+ years experienced, meticulous & result-oriented Data Science Expert armed with an analytical acumen in econometric modelling, algorithm development & machine learning methodologies. Proficient in deploying multiple algorithms and techniques in the domain of computer vision, NLP, clustering and regression analysis, big data ecosystem, etc. to create products that deliver a direct impact on the bottom line of organizations.

EXPERIENCE

Data Science Engineer

Wipro Technologies

Jan 2020 - Present

- Working as Data Science Analyst with GSK (Glaxosmithkline) client and dealing with multiple projects under GSK.
- Worked on responsive **NLP ChatBot** using Rasa and **NLU** for automating Approval or Rejection of requests raised by user followed by the email summary of the request. This process used to take days for manual approval/rejection and has increased the efficiency of employees by **49%**.
- Extensive R & D on various problem statements and possible solutions that helped saved million-dollars.
- Developed Model building framework for trying various Models like Linear Regression, Lasso, **KNNRegressor**, **RandomForestRegressor**, **GradientBoostingRegressor**, **XgboostRegressor**
- Worked on motion detection project to check whether the employees wearing mask or not.
- Regularly tasked with developing, deploying and maintaining sales forecasting models based on history data.
- Carrying out exploratory data analysis to find out reasons behind changing trends in data and presenting it to the team.
- Made attendance book and weekly insights report on Tableau for clearer visualization.
- Actively handling American and Japanese clients for projects and understands their business case and give them the best possible product/solution.

Project Engineer

Wipro Technologies

July 2018 - Jan 2020

- Leveraged **200M+** tweets to develop sentiment analysis model using **Tweepy API** and **Socket programming** that helped improve sales and marketing strategies by **33%**.
- Hands-on experience to design and analyse the process flow as per the client demands and have working experience on skills: Python, HTML, CSS, MySQL, Pyspark, **Data processing**, cleansing, **visualisation** and process engineering.
- Worked on **Jupyter Notebook** for **data plotting** and visualization of shipments to give graphical representation of shipments which are On-time, Delayed, before time using Pandas, NumPy and **Matplotlib** libraries.
- Worked with Cisco Client to perform multi-tier deployments using Orchestration tool (Ansible Playbooks):
 - Automated Scheduling of Scripts on multiple nodes (Windows/Linux/Unix/Aix servers).
 - Installation/Uninstallation of various features on multiple nodes.

Full Stack Developer - Intern

CSIR - National Physical Laboratory

June 2017 – Aug 2017

- Worked on **NTP Server** to count the **Hit Analysis** of all the users across the globe on a particular server using Google API's. REST APIs, Python, Pandas, Numpy.
- Also, stores the the data along with their time stamps in **private database** and retrieve the clean and useful information from the heap of data, and made a web-login page so that only trusted user can access that data.
- Once the data gets clean, it will be displayed in Insights as a pictorial representation of Graphs, Bars, Chats and Pie form.

Languages and Technologies

- **Programming Languages** - Python, SQL, Java, C/C++.
- **Machine Learning** - Mathematical and programming knowledge.
- **Frontend** - JavaScript, HTML, CSS. Bootstrap.
- **Backend** - SQL, NoSQL, GraphQL, MongoDB.
- **Frameworks and tools** - Pandas, Numpy, Rasa, IntelliJ IDEA, Postman, Periscope • **Agile Development** - GitHub, Heroku, Twilio, DialogFlow, JIRA, Confluence.
- **Tools / IDE's** – Anaconda Prompt, Jupyter Notebooks, Tableau, SSMS, Eclipse, Visual Studio.

EDUCATION

New Delhi, India

Guru Gobind Singh Indraprastha University

June 2014 - May 2018

- B.Tech. in Information Technology. CGPA: 8.7/10
 - Main coursework: Data Structures, Design and analysis of Algorithms, Computer Architecture, Mobile Computing, Database Systems, Digital Communication, Grid Computing.
- Top **15** percentile of class

PROJECTS

- **Detection of code bad smell through evolutionary data mining:**
 - Detected 5 types of code smells – Duplicate Code, Feature Envy, God class, Divergent change, Shotgun Surgery using SVM classifier and Random Forest algorithms.
 - Tested the accuracy of algorithms using **CCFinder** and **JDeodorant** tools used for code smell detection.
 - Used various Java projects available on Github to test the accuracy of algorithms
- **Automated Twitter Complain Support & Service Enhancement**

Client: British Airways

Technologies: Spark, Python, Tensorflow, NLP, Kafka

Key Deliverables:

 - Make predictions based on the customer tweet data to predict whether it's a complaint or not
 - Created Machine Learning model to analyse datasets and applied **topic modelling** to identify complaint classes.
 - Built a data pipeline using Spark Streaming.

Motion Detection Application: Developed a Web Application for **ImageProcessing** and Motion Detection using Python, **openCV**, **MySQL**, and stores the trusted face and any other face coming in the view will be captured and send to the admins.

CERTIFICATIONS

- Complete **Data Science** Bootcamp – Udemy
- Awarded for automating daily cleanup activities.
- Completed projects on **Clustering, Linear Regression, Logistics Regression, SVMs** and **Decision Tree** models as a part of Data Science Bootcamp course on Udemy.
- Big Data with **PySpark** - Udemy
- CutShort Certified **Machine Learning**.
- **SQL** Basic and Intermediate Skill assessment tests - Hackerrank
- **Python** Basic and Intermediate Skill assessment tests - Hackerrank
- Awarded for best presentation at Colossus V2.0 **Annual Tech Fest of IEEE-ASET**.
- Director at tech club ISTE (Indian Society for Technical Education) branch in Amity School of Engineering and Technology[2017-18].