# Database & Analytics Programming Journal

# X21164274 – Viplav Vijay Gadewar (Group 6)

Following are my Project Contributions:

1. Did preliminary analysis of the New York City and tried to analyse preference of home buyer according to area regard to crime rate, greenery, property valuations and property sales.

2. I took crime aspects and decided to select Shootings data.

3. Using NYC Open Data website took Shooting data using SODA API.

4. By default, SODA API was giving 1000 rows this was not sufficient for analysing so increased limit to 3000.

5. Using Socrata libraries of python fetched data from NYC Open Data

6. Created a cluster in mongoDB Atlas and given access to other team mates so that they can also create a collection of their datasets.

7. Using Connection String of mongoDB connected and inserted json data using insert many function of MongoClient libraries.

8. Using find function fetched data to data frame of pandas libraries.

9. Did data cleaning and transformation process by removing null values and changing data types

10. Connecting localhost PostgreSQL server by psycopg2 and sqlalchemy libraries from python.

11. Once connected to PostgreSQL server data is inserted.

12. Data is again fetched to data frame and then visualised in form of pie chart, map and bar chart.

13. I have merged group mate (Raj, Rohan, Viplav and Kapil) code and merged data sets and tried to answer research question.

14. Wrote my content for research paper.

15. Pushed code in github at every code changes.

16. Contributed in video presentation.

17. Uploaded all files in submission link.