\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Ensure the following libraries are installed on the machine:

Python==3.7

Scikit-learn==0.19.1

Scipy==0.19.1

Pandas==0.23.4

Numpy==1.15.4

Matplotlib==2.1.0

Pickle==4.0

Folder Structure:

Data

-Traffic\_Crashes.csv

-Traffic\_Vehicles.csv

-Traffic\_People.csv

Preprocessing

-Preprocessing (py, ipynb)

Algorithms\_Implementation

-Algorithms\_1 (py, ipynb)

-Algorithms\_2 (py, ipynb)

-Algorithms\_3 (py, ipynb)

-AlgorithmWithSampling (py, ipynb)

Testing and Evaluation

-CrossValidation (py, ipynb)

- Experimental\_Evaluations (py, ipynb)

-algorithm\_1.p

-algorithm\_2.p

-algorithm\_3.p

Project\_Report\_Group\_10

Project\_Presentation\_Group\_10

README.doc

\*\*\*\*\*\*\* Loading Submission Files\*\*\*\*\*\*\*\*

Step 1: Unzip the file "Project\_Group\_10"

NOTE: Ensure all scripts and data are in the same folder before starting the execution

\*\*\*\*\*\*\* Preprocessing \*\*\*\*\*\*\*

Step 2: Load "Preprocessing.py" file in Jupyter notebook

\*\*\*\*\*\* Model Building \*\*\*\*\*\*\*\*

Step 3: Load “Algorithms\_1.py” file in Jupyter notebook

Step 4: Run the entire script

Step 3 and Step 4 should be repeated for the following files:

“Algorithms\_2.py”

“Algorithms\_3.py”

NOTE: Ensure three “.p” files are generated before continuing with further steps

\*\*\*\*\*\*\*\* Additional Technique Tried \*\*\*\*\*\*\*

Step 5: Load “AlgorithmsWithSampling.py” file in Jupyter notebook

Step 6: Run the entire script

Step 7: Load “Experimental Evaluations.py” file in Jupyter notebook

Step 8: Run the entire script

NOTE: Ensure a ‘.p’ file is generated

\*\*\*\*\*\*\* Experimental Evaluation of Parameters \*\*\*\*\*\*\*

Step 9: Load “Experimental Evaluations.py” file in Jupyter notebook

Step 10: Run the entire script

\*\*\*\*\*\*\* Model Evaluation \*\*\*\*\*\*\*\*

Step 11: Load “CrossValidation.py” file in Jupyter notebook.

Step 12: Run the entire script

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