



Traffic Flow Predction

Group B



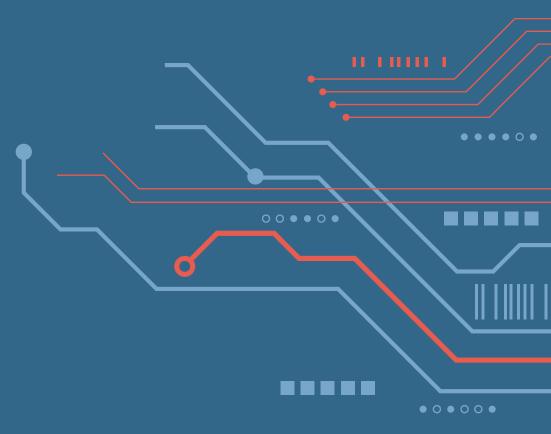
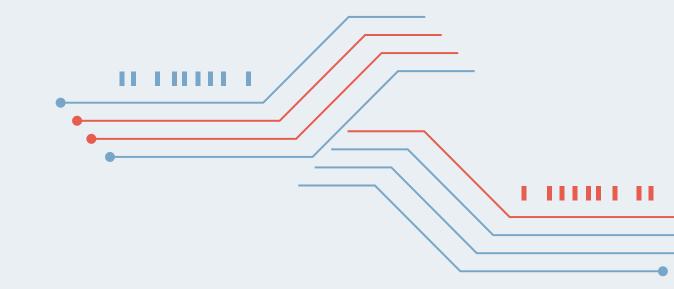


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The idea for the project is to create a deep learning model for predicting traffic jams on roads by utilizing the data that is currently available, such as the time of day, the quantity and kind of cars on the road, and the type of traffic. Based on the given data, the model will forecast the kind and timing of congestion.





Dataset

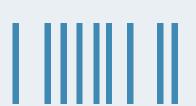
ed several data into the

The data was collected from the Kaggle data source and we combined several data into the same file to complete the dataset

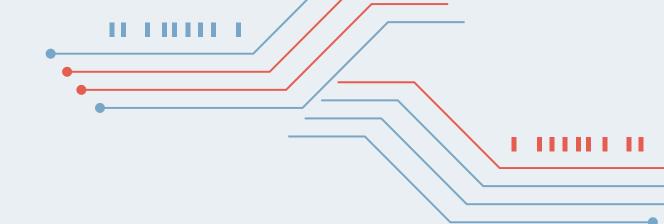
We created a time series prediction model using LSTM neural networks to predict the type and

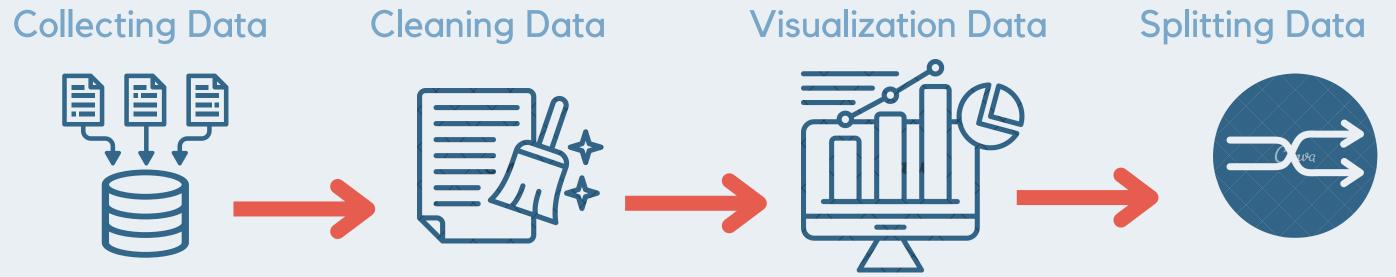
timing of congestion.

| Column Name |
|----------------------------|
| Latitude :float |
| Longitude: float |
| Day of the week : object |
| CarCount : int |
| BikeCount : int |
| BusCount : int |
| TruckCount : int |
| Total : int |
| Traffic Situation : Object |



Methodology





Solutions Model

Evaluating Model

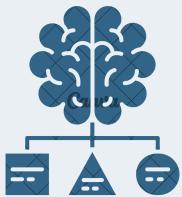
Applying Model on Data

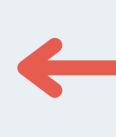






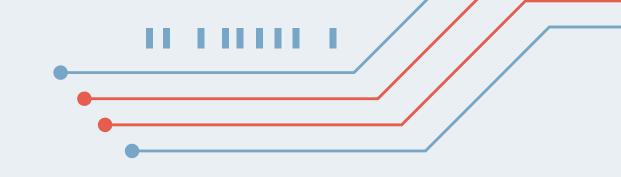




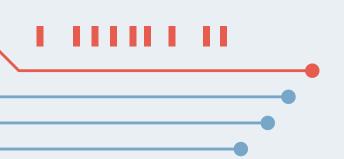




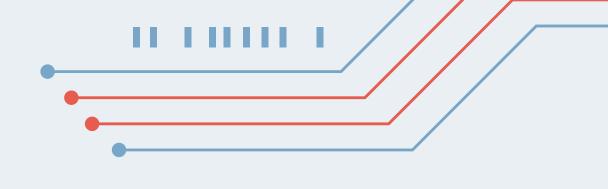
Results







Conclusion



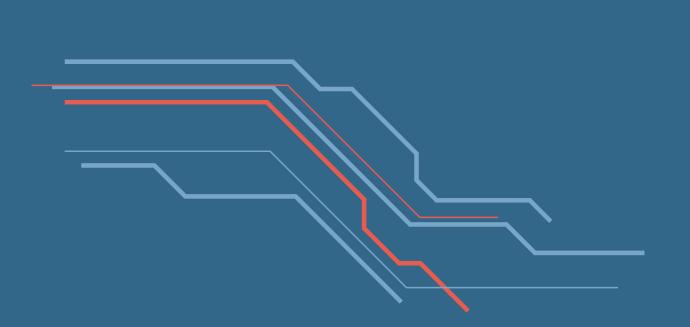
The traffic congestion prediction model based on predicting the type and timing of congestion using LSTM neural networks has shown the potential to help with:

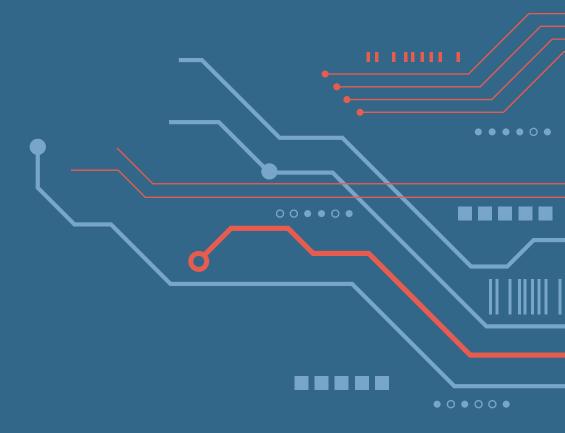
- Smart traffic management
- Emergency management

Team Work

- Dana Almistdadi
 - a Almistdadi Rana al-Harsan
- Joud Tarek

Retaj Alanzii







Thank You

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Question's?

