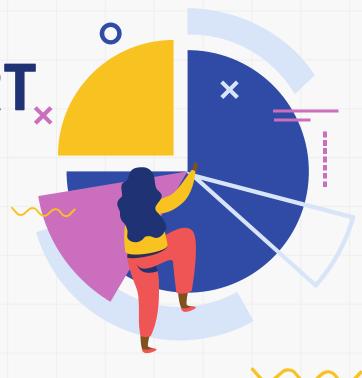
**Problem statements** 

## NLP BASED REPORT<sub>×</sub> SUMMARISATION

Submitted by : Sulaikha, Meenakshy, Nayana



## **Objective:**

- Develop an NLP-powered Al model that automatically summarizes long traffic enforcement and accident reports into concise, structured summaries for quick decision-making.
- Helps officers and policymakers get key insights without reading full reports.

Used an accident dataset with details like date, time, location, type, and casualties.

Used ChatGPT to generate large structured summaries for better analysis.

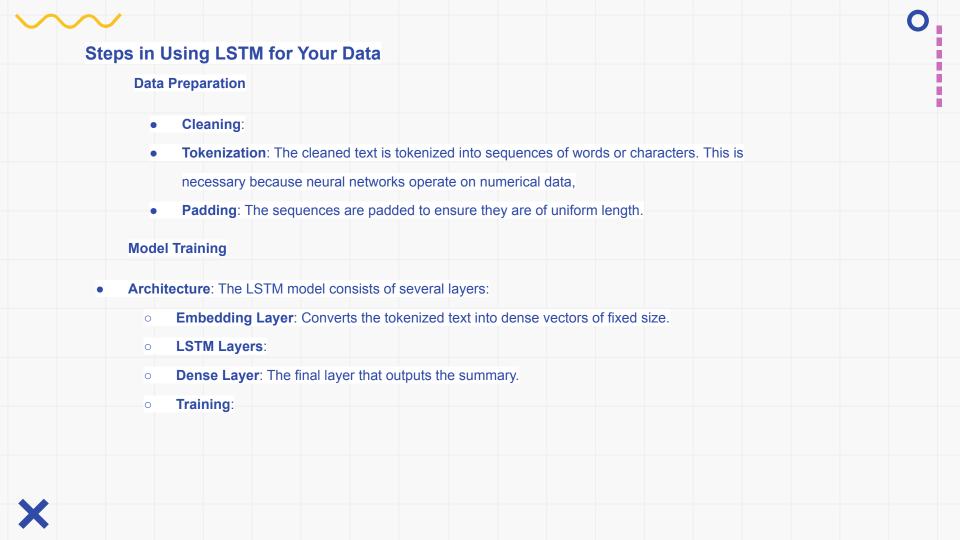


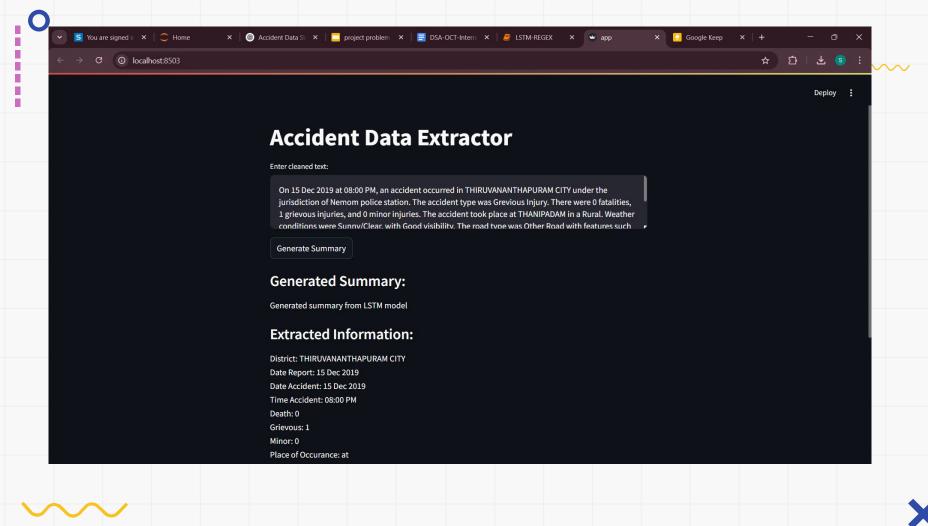
## **Data preprocessing**

- Cleaning: Steps taken to clean the text data.
  - Lowercasing
  - Removing punctuation
  - Tokenization
  - Removing stopwords

LSTM is a type of Recurrent Neural Network (RNN) designed to handle sequential data. It is particularly effective for tasks involving sequences, such as text, time series, or any data where the order of elements is important. LSTMs are capable of learning long-term dependencies, making them suitable for tasks like text summarization, translation, and prediction.







## THANKYOU! • •



