

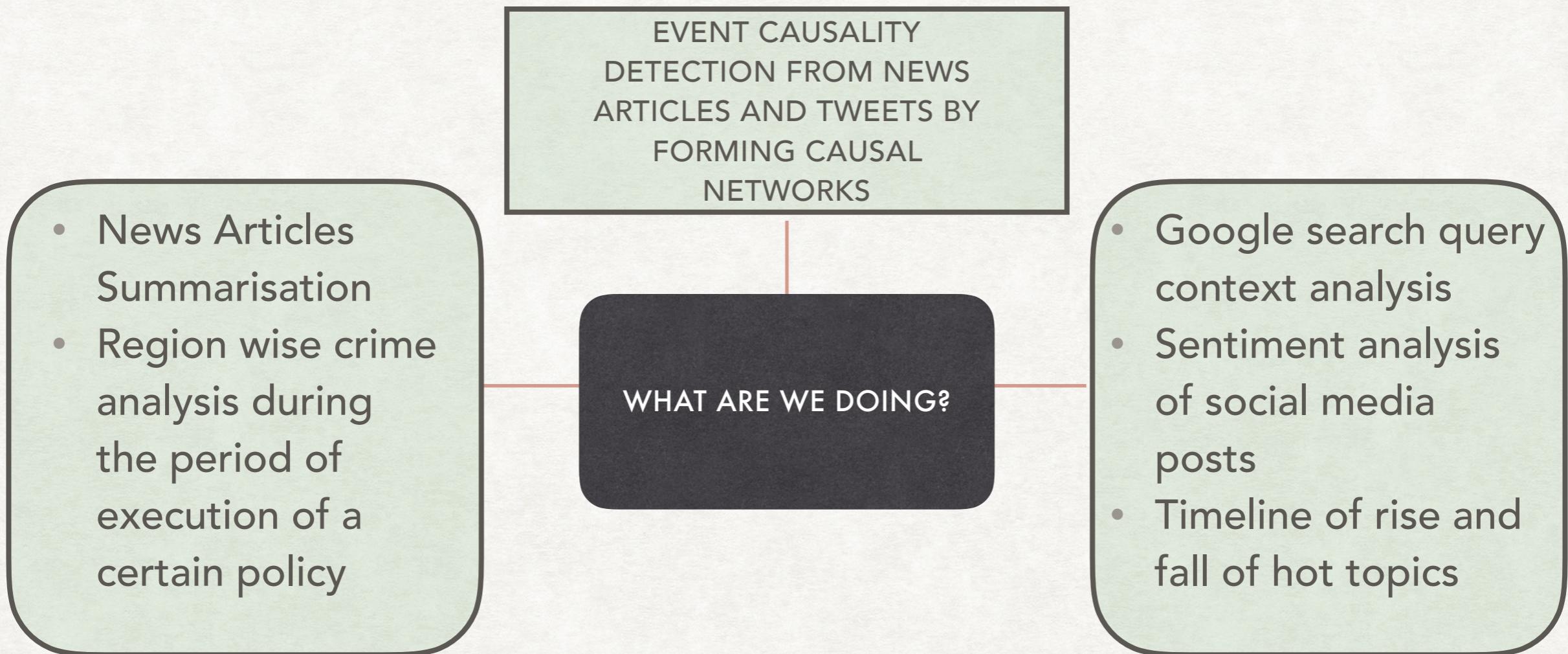
PROBLEM STATEMENT - STUDENT INNOVATION (MISCELLANEOUS)

AN AI PLATFORM FOR UNDERSTANDING AND ANALYSING THE IMPACT OF GOVERNMENT POLICIES

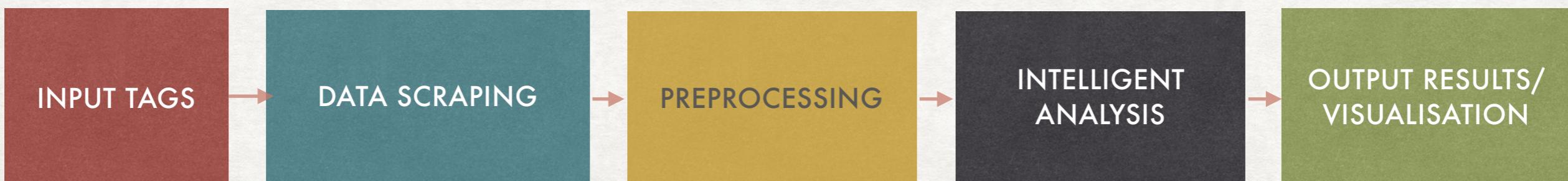
Description:

- Analysing and understanding thousands of news articles, lakhs of social media posts and millions of google search queries everyday is impossible for any human. But, artificial intelligence gives us the ability to achieve this seemingly impossible task.
- Our aim is to build a unique platform to help the people understand the impact of any government policy on the society, as well as on the economy.
- Our platform will help people form informed opinions on any political matter by providing them with visual statistical analysis as well as intelligent analysis and summarisation of lakhs of news articles and social media posts.
- Our platform will also aid in better policy formation by helping policy analysts compile and understand the social opinions being formed on the internet.

IDEA/APPROACH



THE PIPELINE



Event causality detection from news articles and tweets by forming causal networks

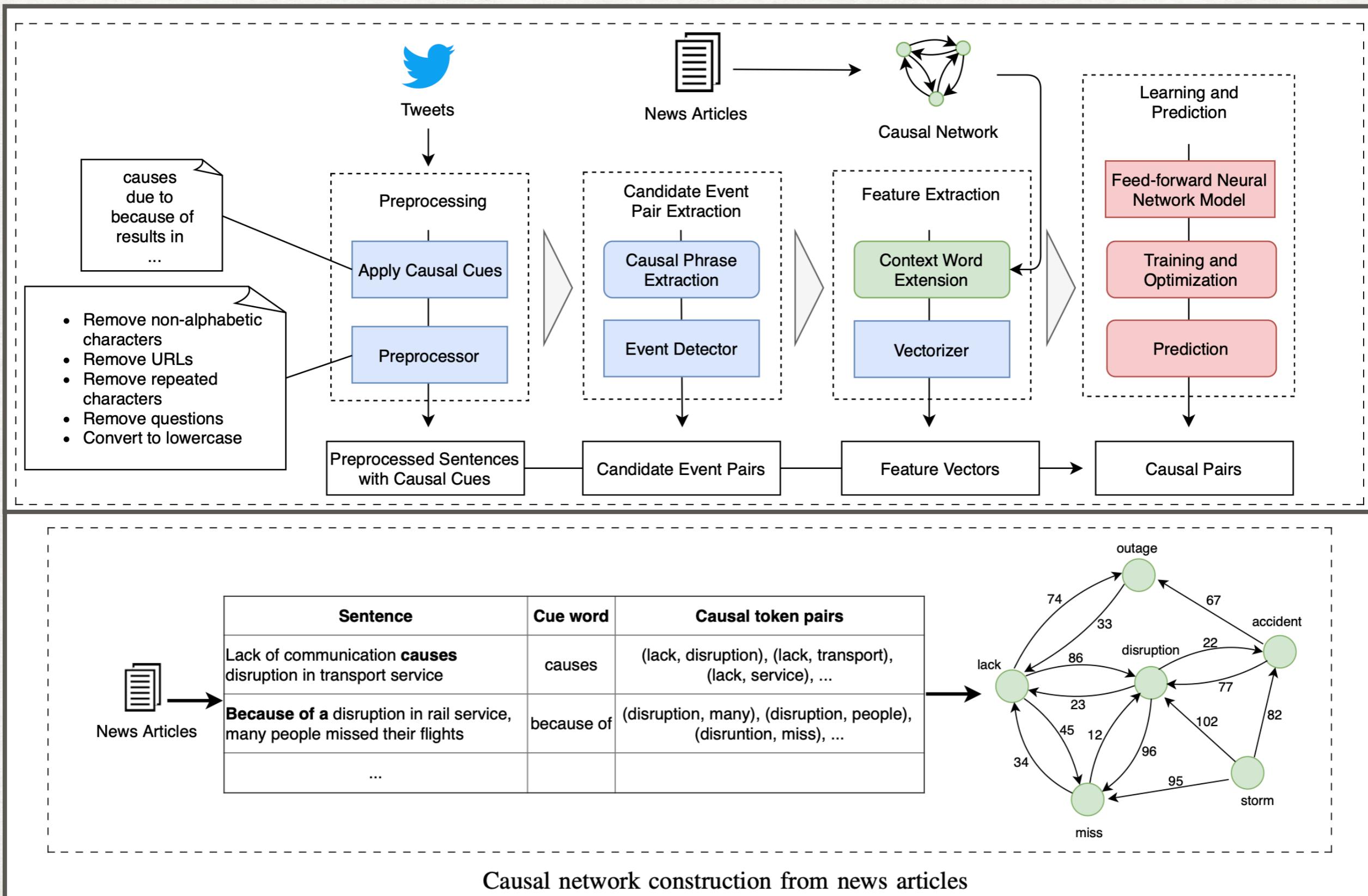


Figure 1. Graphical Analysis of social media posts for the end user.

- The platform will provide such graphical and textual analysis.
- It will also draw comparisons between the impact of a certain policy and public sentiment about it.
- News articles summarisation and topic modelling will be provided as per request by the user.

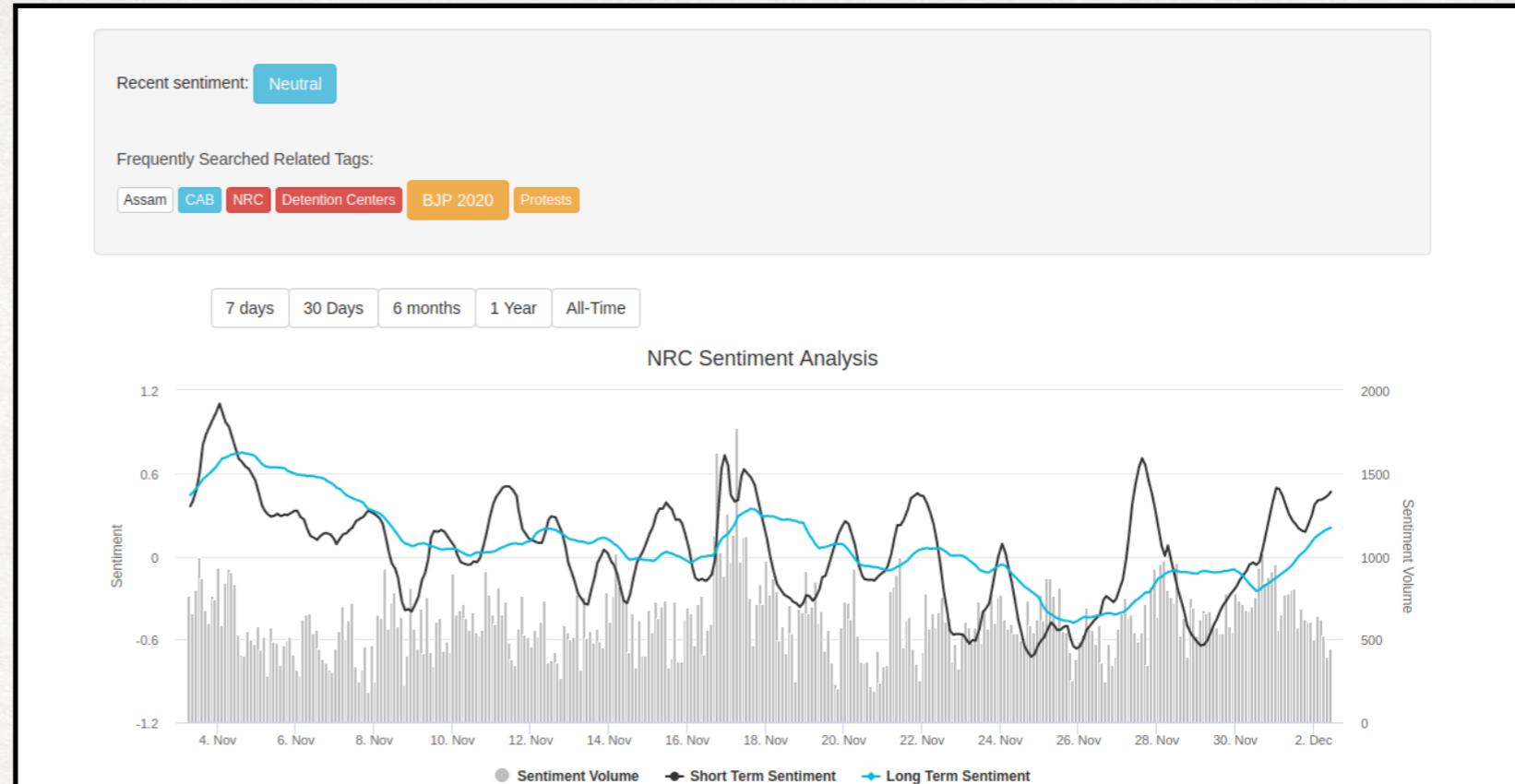
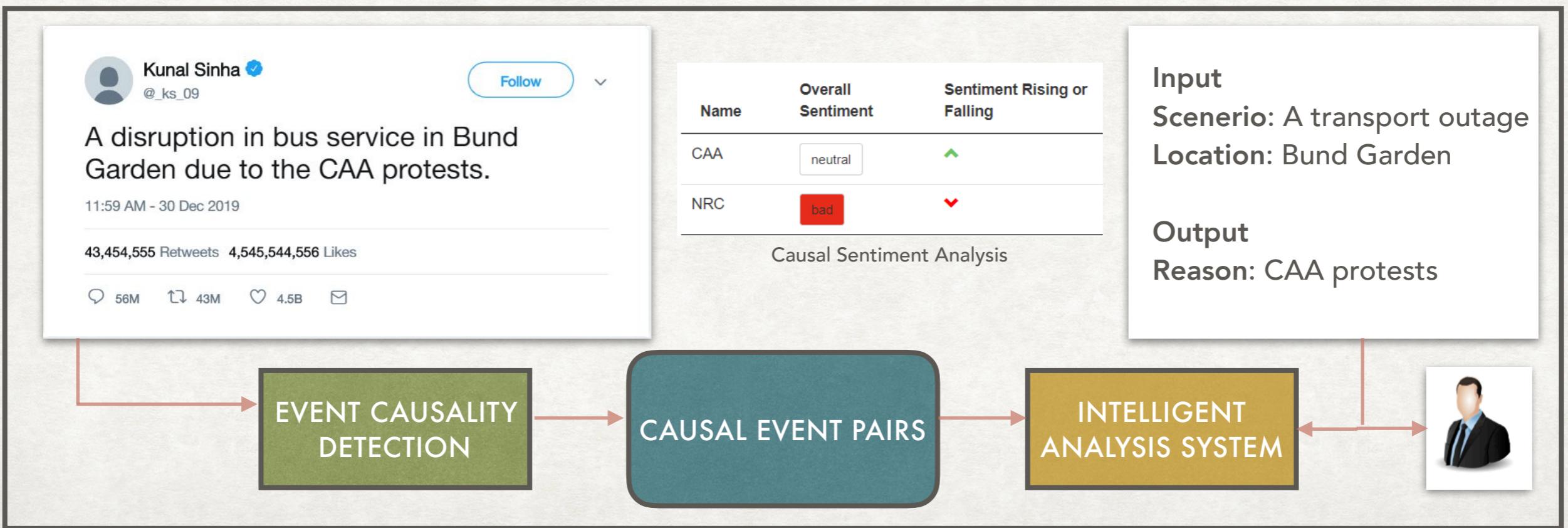
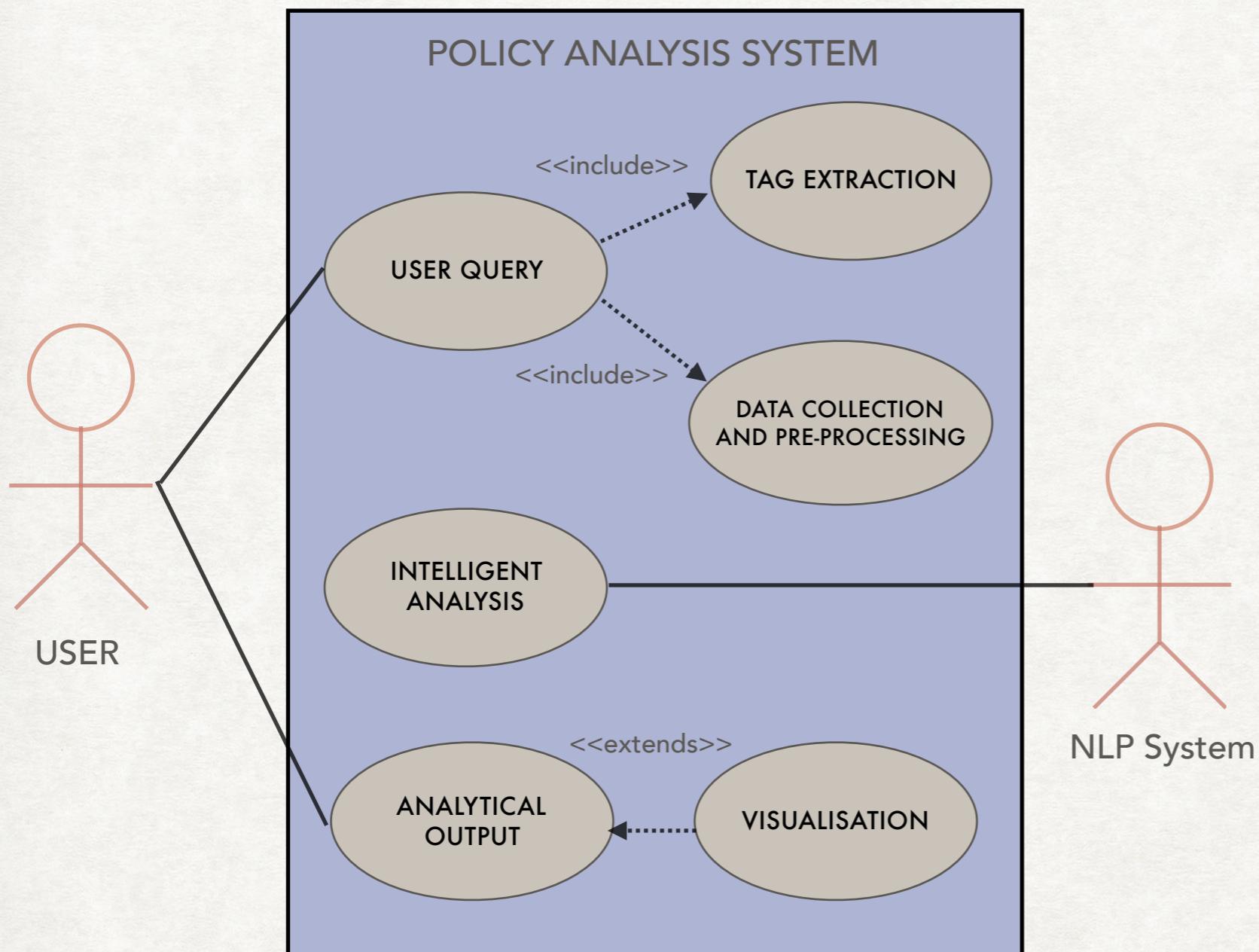


Figure 2. Automatic Event Causality Detection (Textual summarisation) along with causal sentiment analysis.



USE CASE DIAGRAM



TECH STACK

- Python
- NLTK
- Keras/Tensorflow
- Flask
- JavaScript
- Scikit-learn

DEPENDENCIES

- Training resource
- Server for hosting the website
- Social Media APIs