Project ID: PW21BJD01

Project Title: Rumour Detection and Veracity Verification Using Socio-Linguistic Data and Social Graphs

Team Members: Sukanya Harshvardhan(PES1201700214), Sirisha Lanka (PES1201700294), Prajna Girish (PES1201701261)

Project Guide: Prof. Bhaskarjyoti Das

Project Abstract:

Sharing content on social media platforms such as Twitter is one of the most effective ways to target a large audience and spread awareness. However, this privilege can be misused when the shared content includes unverified and mistrusted information in the form of rumours.

Hence, early detection of these rumours and assessing their veracity is a key problem to be addressed on such platforms. In this project, we have proposed a learning mechanism which incorporates analysis of socio-linguistic data and social graph perspectives for rumour detection and veracity verification.

Code Execution:

Demo execution:
python3 demoData.ipynb
python3 generateDataset.ipynb
 python3 final_demo.ipynb

BERT model training:
python3 BERT-Rumour Detection.ipynb

Random Forest Classifier Training:
python3 rum_det_prop.py

Emoji Prediction code:
python3 stance_emoji.ipynb

Stance and Veracity using bilstm:
python3 stance_veracity.ipynb