CS6320: Natural Language Processing Sanda Harabagiu

Projects Spring 2021

Processing Affect In Social Media



About the COVID-19
Vaccine

Each Project

- Will process several forms of affect from Twitter
- 5 students

PHASE 1:

- ALL students will ANNOTATE in tweets
- ◆ The STANCE of the misinformation about the COVID-19 vaccine

Stance Values: Support, Against, None

Phase # 2

- Each student will develop a neural architecture to process the annotated tweets for the assigned TASK
- Task 1 : <u>Stance detection</u>

Should consider several baselines

→BERT-based recognition ????

Design neural architecture to detect automatically the stance

1 Student responsible for **Stance Detection**

STUDENT 2: Fine-tune sentiment detection and measure its impact on Stance Detection



Positive

Neutral

Negative

1 Student responsible for Sentiment Detection + Integration in Stance Detection



 STUDENT 3: Fine-tune Emotion detection and measure its impact on Stance Detection



Student responsible for :

Emotion Detection +

Integration in Stance Detection



 STUDENT 4: Topic Modeling using Neural Architectures, mapping into hashtags

1 Student responsible for :

Topic Detection + Integration in Stance Detection



- STUDENT 5:Connotation detection based on the identification of predicate-argument structures.
- Named entity Recognition

1 Student responsible for:

Connotation Detection + NER
Integration in Stance Detection

