## Team Members

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Dept. of Computer Science of Engineering



VARDHAMAN COLLEGE OF ENGINEERING

(AUTONOMOUS)

Affiliated to JNTUH, Approved by AICTE, Accredited by NAAC with A++ Grade, ISO 9001:2015 Certified

Kacharam, Shamshabad, Hyderabad - 501218, Telangana, India

EPICS - PRODUCT EXPO – 2K22



## Faculty Mentors

1. Ms. Keerthi Pendam
   Assistant Professor
   Department of CSE


# PREDICTION USING SENTIMENT ANALYSIS WITH RNN

## Objectives

- ✓ It can recommend the user through his/her previous experience with the software.
- ✓ According to the survey, 80% of the data on the planet is unstructured.
- ✓ Regardless of whether the data is in the form of emails, texts, documents, articles, or other formats, it must be analyzed and organized.
- ✓ Sentiment Analysis is required because it stores data in a cost-effective and efficient manner.
- ✓ Sentiment analysis helps you solve real-time problems and can assist you in solving all real-time scenarios.

## Need Statement

1. If the data is in the form of a tone, then it becomes really difficult to detect whether the comment is pessimist or optimist.
2. If the data is in the form of emoji, then you need to detect whether it is good or bad.
3. Even the ironic, sarcastic, comparing comments detection is really hard.
4. Comparing a neutral statement is a big task.
5. We can take the decision whether the reviews are positive or negative and helps in decision making to improve the business.

## SDG & Sub-SDG

- ✓ Our objective was to create simple and easy-to-use software for the general public so that people could analyze comments collected from various sources such as movies, music, and research papers. The system will then recognize positive and negative remarks from prior answers, allowing individuals to choose which one is appropriate for them.

## Details of Community Partner

- ✓ Name of Person/NGO/etc.: IMDB
- ✓ Age/Date of Establishment: October 1990
- ✓ Occupation/Work culture: Public
- ✓ Location: Seattle, Washington, United States
- ✓ Mobile Number: No Mobile Number

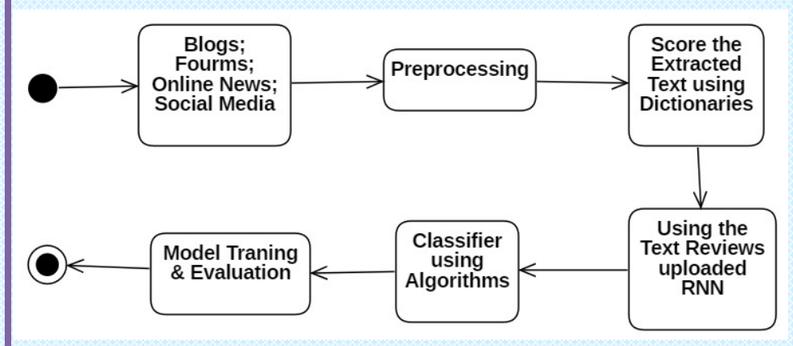
## Detailed Specifications

- ✓ Python above version 3.6
- ✓ Dataset – IMDB dataset from Kaggle
- ✓ Random Access Memory (RAM): 4 GB or above
- ✓ Central Processing Unit (CPU): 1.7 GHz Processor and above
- ✓ Operating System (OS): Windows 8 and above

## Detailed Budget

**Cost of Product/Process: Rs. Free of Cost /-**

## Architecture/Block Diagram/Concept Design




## Product Picture

```
prediction = model.predict(padded)
pred_labels = []
for i in prediction:
    if i >= 0.5:
        pred_labels.append(1)
    else:
        pred_labels.append(0)
for i in range(len(sentence)):
    print(sentence[i])
    if pred_labels[i] == 1:
        s = 'Positive'
    else:
        s = 'Negative'
    print("Predicted sentiment : ",s)
```

```
The movie was very touching and heart whelming
Predicted sentiment :  Positive
the movie plot is terrible but it had good acting
Predicted sentiment :  Positive
```

```
[30] print("Accuracy of prediction on test set :",accuracy)

Accuracy of prediction on test set : 0.8554
```

## Feedback of Community Partner

- ✓ Our project's concept and goals were well received.
- ✓ Recognized all partners' abilities and contributions.