

SENTIMENT ANALYSIS

PROJECT SYNOPSIS

FOR THE FULLFILLMENT OF

MASTER OF APPLICATIONS

SUBMITTED BY:

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Mini Project Synopsis

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6. Batch : 2022-24
7. Proposed Topic : Sentiment Analysis
8. Team Size and Details: 1 Member

What is Sentiment Analysis?

Sentiment analysis is nothing, it just recognizes the sentiment behind the text. It is often used by businesses to detect sentiment in social data, product reputation, and understanding customers.

This is a Machine Learning project, in which with the help of machine learning algorithms and techniques we will classify the sentiment of text that is positive, negative, or neutral.

Sentiment Analysis

Prerequisites

Basic knowledge of deep learning with Keras library and Python programming are required to run this amazing project.

You need to install certain libraries in your system to implement the python sentiment analysis project. The required libraries are:

- Numpy (pip install numpy)
- Pandas (pip install pandas)
- Matplotlib (pip install matplotlib)
- Natural language Processing toolkit (NLTK) (pip install nltk)
- Sklearn (pip install sklearn)

Methodology/ Planning of work

1. Import libraries and dataset.

At the project beginning, we import all the needed modules for training our model. We can easily import the dataset and start working on that because the Keras library already contains many datasets .

2.The Data Preprocessing

we need to perform some basic operations and process the data to make it ready for our neural network.

3.Create the model

Its time for the creation of the CNN model for this Python-based data science project.4.Train the model

To start the training of the model we can simply call the `model.fit()` function of Keras.

5.Evaluate the model

To evaluate how accurate our model works, we have around 30 columns in our dataset.

Technology / Tools / Language / Facilities required for proposed work

Technology : Machine Learning

Tools: Pycharm Python IDE

Language : Python

Bibliography

1. <https://www.researchgate.net/publication/36011244242>
2. https://www.researchgate.net/profile/Manika_Lamba3/publication/
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