Artificial Intelligence (18CSC305J)

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Ex- 10 : Team Tesla 2.0

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Experiment 10 - Implementation of NLP methods.

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Problem Statement:

Sentiment analysis is methodology for analyzing a piece of text to discover the sentiment hidden within it. It accomplishes this by combining machine learning and natural language processing. It allows us to examine the feelings expressed in a piece of text.

Algorithm :

1. Pre-Process the data.
2. Remove neutral reviews
3. Convert categorical values to numeric using Factorize ( ).
4. Use LSTM to avoid overfitting.
5. Define two lists of polarized words.
6. Test and Train the data

7. In training data features are extracted and in prediction these are classified.

Code:
https://colab.research.google.com/drive/1p85_s-ObI2od6NlFGvXTeBp8rBfjpcS4

Observation :
Here, we built a binary text classifier that classifies the sentiment of the tweet into positive and negative. We use the bag of words to classify the tweets into positive or negative.

Real World Solution:

- Digital phone calls
- Data and Text analysis
- Smart assistants

Result: We successfully deployed the sentiment analysis model .