



Module 1: Assignment 1

Due Date: Friday February 7th

Task – January 30th

Implement a traditional NLP model (for example n-grams, BoW or any other traditional model) to perform a sentiment analysis on the following four sample texts (output can be either positive or negative sentiment).

Then, use a pre-trained LLM (for example Hugging Face Transformers) to perform the same task. Compare the outputs and highlight the potential differences/similarities.

Sample texts

- I loved the movie. It was fantastic!
- The product is terrible. I would not recommend it.
- It's horrible. I didn't like it.
- The view is not bad.

Hint 1: You can use the following code to load pre-trained sentiment analysis pipeline for your LLM:

```
sentiment_model = pipeline("sentiment-analysis", model="distilbert/distilbert-base-uncased-finetuned-sst-2-english")
```

Hint 2: You can also use textblob library and the following command for traditional sentiment analysis:

```
TextBlob(text).sentiment.polarity
```



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How to Sumit Assignment

To submit your assignment within the LMS:

1. Click on the Assignment 1 within Module 1.



2. Click Add Submission
3. Paste your Kaggle notebook link into the submission area.
4. Choose Save Changes.
5. If you are done, choose Submit Assignment.

Note: If you **do not** choose Submit Assignment, your submission will be saved as a draft.

