Guided Projects Artificial Intelligence & Machine Learning

Guided Projects: Natural Language Processing

Applications in Natural Language Processing

Natural Language Processing (NLP) is concerned with **machine-human collaboration**. It helps **computers read, interpret, and understand** the **human language** so that machines can carry our **repetitive and high-volume tasks**. It is the field of **Artificial Intelligence (AI**) that focuses on **quantifying human language** to make it **intelligible to machines** by combining the power of **linguistics and computer science** to study the **rules and structure** of language and **create intelligent systems.**

Question:

Using NLP we can easily analyse any given text. The steps involved for such an analysis are tokenization, pre processing each word and then finally vectorising each of them. One of the most common and easy to implement vectorisation algorithm is BoW. Using BoW and NLTK for processing, implement a simple spam filter that marks all the spam texts as dangerous.