**Sentiment Analyzer**

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**Abstract**

This project focuses on using artificial intelligence to detect if an entered sentence is positive or negative.

The three different steps used to arrive at an analysis:

1. Pre-processing: where the data set is extracted and put into a format that can be used for training.
2. Training: This is the process involves running through the dataset and set the weights in order to be able to predict the sentiment of the entered data.
3. Evaluation: In this step an evaluation data set is used, and the results are compared with the actual results in order to understand the accuracy of the system.

**Objectives:**

1. This project focuses using AI to screen text, comments, posts, etc. before uploading it to a website as a comment in order to decrease the negativity on the internet. The implementation of this technology can be used for multiple reasons.

**Tools:**

**Programming language :-** python

**Modules/dependencies involved:**

* **NumPy** is a package in Python used for Scientific Computing. NumPy package is used to perform different operations. The ndarray (NumPy Array) is a multidimensional array used to store values of same datatype. These arrays are indexed just like Sequences, starts with zero.
* **Matplotlib** is a plotting library for the Python programming language and its numerical mathematics extension NumPy. It provides an object-oriented API for embedding plots into applications using general-purpose GUI toolkits like Tkinter
* **Scikit-learn** is a free machine learning library for **Python**. It features various algorithms like support vector machine, random forests, and k-neighbours, and it also supports **Python** numerical and scientific libraries like NumPy and SciPy.
* **pandas** is a **Python package** providing fast, flexible, and expressive data structures designed to make working with structured (tabular, multidimensional, potentially heterogeneous) and time series data both easy and intuitive.