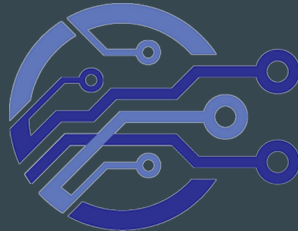


AI based Sentiment Analysis Web App

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Dry Point 1.0



Details

College: **Indian Institute of Information Technology Una**

Domain: **Machine Learning, IoT**

Problem Statement: **AI based Sentiment Analysis Web App.**

Category: **Software**

Team Name: **Dry Point 1.0**

Team Leader Name: **Md Kaish Ansari**

Our Solution for the problem statement

The idea of the sentimental analysis of text data is necessary for the research purposes as in **detection of harassment or trolls in twitter** or any other social media platform and emotions of user about your product i.e how your product is helping them.

We are building an AI based Web App which will analyse the text entered by user and predict the emotion of user as positive or negative and also probability of user's emotion.

We tend to provide an **AI based solution** to the problem of **Sentiment Analysis**. We plan to deploy our AI model on a **secured cloud platform** with clean UI so that it is easy to use by everyone and also easy to administer web based application which will store database of users and can be used by **authorities**.

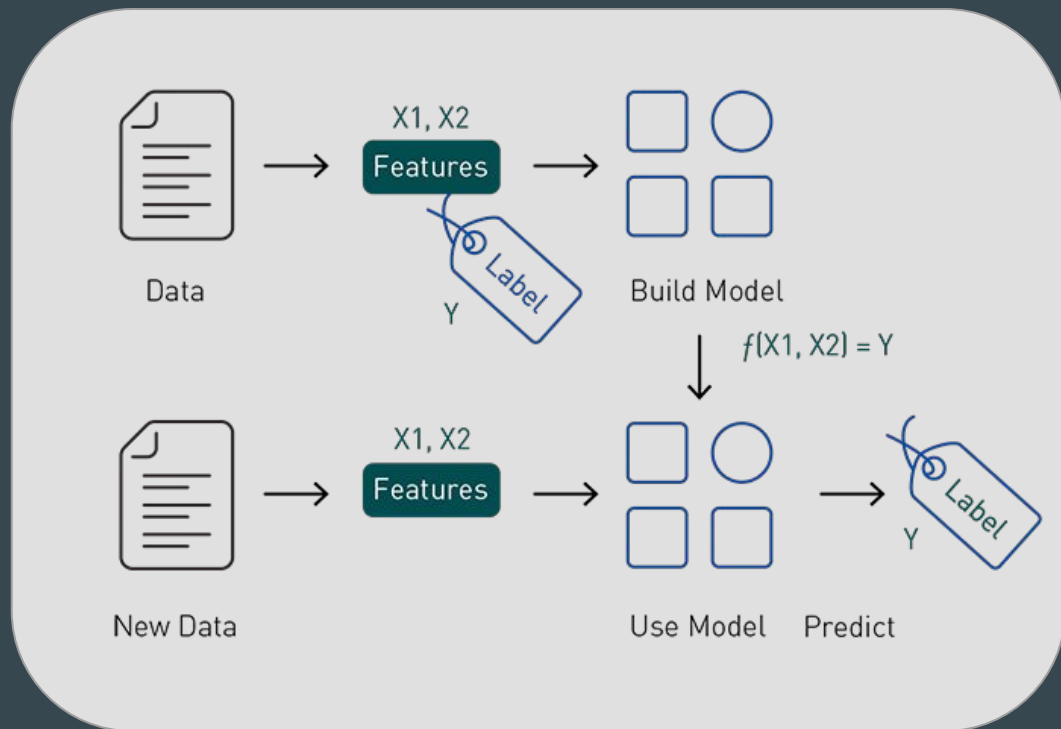
Technology Stack used by us

1. **Front End:** HTML, CSS, BootStrap.
2. **Back End:** Flask(A python FrameWork) and LSTM Model.
3. **Dependencies Used:** CSV files and other dependencies are explained as follows along with their uses:
 - a. IMDB DataSet(**Our Model is trained on this dataset**)
 - b. Google Colab(**Training of model on this platform**)
 - c. Heroku Cloud Platform(**Deployment of Model**)
4. **Machine Learning Model:** LSTM(Long short-term memory).
5. **Python Libraries:** Tensorflow, Keras.

What is Sentiment Analysis

The process of computationally identifying and categorizing opinions expressed in a piece of text, especially in order to determine whether the writer's attitude towards a particular topic, product, etc. is positive, negative, or neutral. It's also known as opinion mining, deriving the opinion or attitude of a speaker.





Use Cases

Business: In marketing field companies use it to develop their strategies, to understand customers' feelings towards products or brand, how people respond to their campaigns or product launches and why consumers don't buy some products.

Politics: In political field, it is used to keep track of political view, to detect consistency and inconsistency between statements and actions at the government level. It can be used to predict election results as well!

Public Actions: Sentiment analysis also is used to monitor and analyze social phenomena, for the spotting of potentially dangerous situations and determining the general mood of the blogosphere.