**Twitter-Truth-Detector-Python**

**1.⁠ ⁠Data Input:**

Users input a tweet or news article into the website through a text box on the homepage.

**2.⁠ ⁠Text Preprocessing:**

The tweet text is cleaned and preprocessed by removing unwanted elements like URLs, special characters, and stop words. The system then converts the cleaned text into a numerical format using a technique like TF-IDF (Term Frequency-Inverse Document Frequency) or word embeddings to make it understandable for the machine learning model.

**3.⁠ ⁠Model Prediction:**

The preprocessed text is fed into the machine learning model, which has been trained on labeled data (real and fake news tweets).

The model uses features like language patterns, keywords, sentiment, and other text-related parameters to make its prediction.

Based on the learned patterns, it predicts whether the tweet is Real (authentic) or Fake (misleading or false).

**4.⁠ ⁠Result Display:**

After the model processes the text, the website displays whether the tweet is "Real" or "Fake" to the user, along with an explanation if applicable.