**Detecting Mood and Intent from Text**

**First of all, the project name is “**Between the Lines”. It’s an AI-powered tool that analyzes the text a user submits to detect their emotional state such as happiness, sadness, angry etc… and determine their intent whether they are asking, complaining, requesting and so on. This application focuses on extracting emotional and intent from the text, without delving into its specific content. Instead, it examines the tone, structure, and writing patterns to understand the underlying emotions and goals.

In these days, unfortunately emotional cues are often missed in plain text. Understanding a person’s feelings or intentions is essential for businesses, mental health professionals, and even personal relationships. There is a growing need for an automated system that can analyze the tone and structure of text, improving how users interact with technology.

Between the Lines uses Python and machine learning to analyze user input, extracting emotional and intentional signals based on writing patterns. The solution includes:

1. **Mood Detection**: Assessing the user's emotional state by examining their writing style, including word choice, punctuation, and sentence length.
2. Intent Detection: Recognizing the user's intent, such as asking a question, making a request, or expressing frustration, without focusing on the specific content of the text.

Unlike traditional sentiment analysis, Between the Lines not only detects sentiment but also uncovers the user's mood and intent based on their writing style. It provides context-aware, real-time insights that can be very valuable.

What will I use?

* **Python** (Main language)
* **scikit-learn** (Machine learning models)
* **nltk**, **spaCy**, **transformers** (NLP tools)
* **pandas** (Data handling & preprocessing)
* **streamlit**/**gradio** (Interactive UI)