Project- Kid safe Text to Mood Detection

Objectives

- Students will learn how sentiment of a word is extracted and represented with Emoji's.
- Students will learn how simple conditions(IF/ELSE) help to identify the mood of a sentence.
- Student will identify at least one limitation of basic sentiment systems

Key Concepts Introduced

- Sentiment Score
- Threshold-based Classification
- Bad Word Filtering
- Word to Emoji

Concept Breakdown

1. Sentiment Score- Here students learn that sentences can be assigned a numeric value(eg: +0.7='cheerful' and -0.7='sad')
2. Text Safety Check- Before scoring, the text is scanned for unsafe words.
3. Emojis and Output- The app summarizes the mood with a visual expression, which makes results easier for younger students to understand.

60-Min Teaching

- **Introduction (10 min)**

    1. Short discussion: "Can computers understand feelings?"
    2. Ask students to share sentences with different tones.

- **Concept Teaching(15 min)**

    1. Introduce sentiment score in simple language.
    2. Explain how rules divide scores into categories.
    3. Introduce the idea of filtering unsafe language.

- **App Demonstration (15 minutes)**

    1. Show how text is entered.
    2. Display output emoji + short explanation.
    3. Observe changes when wording changes.

- **Student Practice (20 minutes)**

    1. Students experiment using their own short sentences.
    2. Ask them to try: Happy sentence, Sad sentence, Very neutral sentence, Slightly confusing sentence

Learning Outcome

- Students will describe how computers associate text with emotion
- Apply simple rule-based logic to categorize mood
- Understand why text filtering is important
- Recognize that simple models cannot understand sarcasm, jokes, etc.