Building a Mood2Emoji App

- A step by step lesson plan on how to build a Mood2Emoji App.

Duration: 60 minutes

Topic: Introduction to Text Classification using Sentiment and Emoji

Age Group: 12 - 16 years

Tech stack:

Topics Introduced

- What is sentiment? How emojis express mood
- How computers understand text (TextBlob intro)
- Responsible & safe computing (profanity filter)
- Using the Mood2Emoji app (hands-on activity)
- Wrap-up and Q&A

What is sentiment? How emojis express mood

Sentiment = **emotion inside a sentence**

Words can show feelings:

- “I’m excited!” → Happy 😊
- “This is terrible…” → Sad 😞

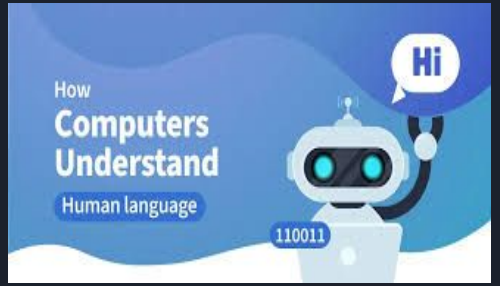
Emojis are **visual shortcuts** for emotions

We use emojis in messages to **show how we feel**

Understanding: Computers try to understand these feelings from our text

How Computers Understand Text

- Computers **don’t understand feelings** like humans
- They convert sentences into **numbers**
- We use a tool called **TextBlob**
- TextBlob gives each sentence a **polarity score**
  - Range: **−1 (very sad)** → **+1 (very happy)**
- Example:
  - “I love this!” → +0.8 → 😀
  - “I hate this…” → −0.6 → 😞
  - “It’s okay.” → 0 → 😐



Understanding: Numbers help computers detect moods

Responsible & Safe Computing (Profanity Filtering)

- Kids should feel safe while using apps
- Our app checks for **bad/inappropriate words**
- If found → We don’t show the emotion

  Instead: **Neutral emoji** 😐 + friendly message
- Teaches responsible communication:
  - “Use kind words!”
  - Keep the internet a safe place

Understanding: Technology must protect users from harmful language

Using the Mood2Emoji App (Hands-On Activity)

Type short sentences. Observe emoji result. Try changing words. Ssee mood change

Teacher Mode:

- Polarity number
- How the model thinks

Fun tests:

- Try to get **all 3 emojis**
- Try rewriting sentences to change mood

Understanding: We can test how our words affect emotions

Wrap-Up & Q&A

Discussion questions:

- Why is understanding emotions useful in technology?
- What improvements could we make to Mood2Emoji?

Learning reflection:

- Computers can detect emotion using text
- Sentiment can be positive, neutral, or negative
- Safety filters keep apps kid-friendly
- We built and tested a real AI tool

Understanding: *Students become creators, not just users*