

Prototype : Using my laptop webcam to detect a smile or simple facial gesture using Python + OpenCV + DeepFace, then play a matching song.

1. Webcam turns on.
2. It looks for your face.
3. If it sees a smile and outputs that back in text

- OpenCV → Reads webcam + finds your face.
- DeepFace → Checks the emotion (ex: happy, neutral, sad).
- Output emotion

Work flow

1. Start webcam.
2. Detect face.
3. Crop the face.
4. Run DeepFace emotion detection.
5. Output Emotion

End Goal

- Only detect one emotion first: smile/happy or sad