

# Emotion & Exertion Analysis Report

Video analyzed: test.mp4  
Generated on: 2025-01-14 13:42:26



## How It Works:

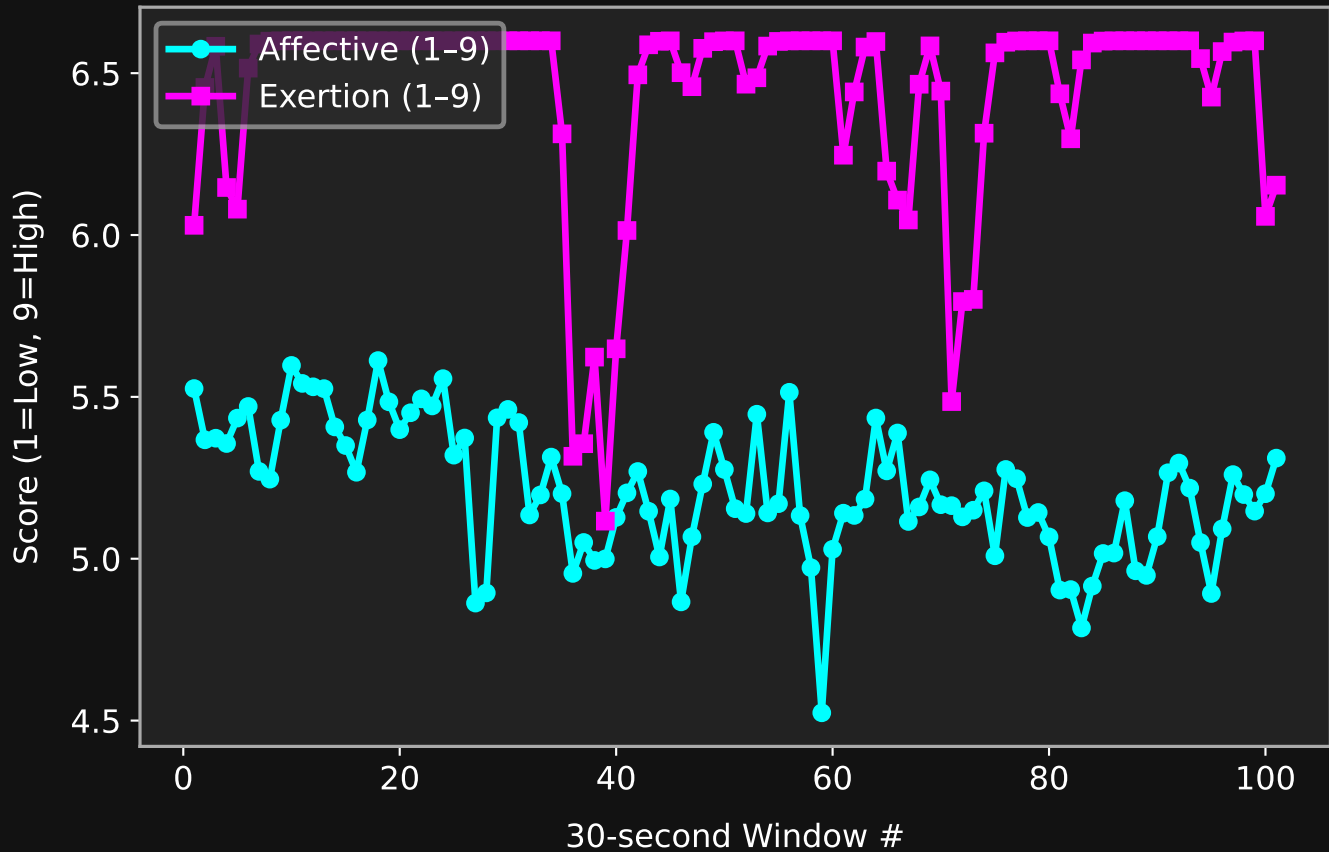
This report demonstrates how we merge predictions from two local Hugging Face models to determine emotion probabilities in each frame. We then derive two key metrics:

- Affective Score (1-9): Higher indicates more positive affect, combining probabilities of 'happy' and 'neutral', minus negative states like 'sad' or 'fear'.
- Exertion Score (1-9): Higher indicates more signs of tiredness or fatigue, driven by gestures (e.g., 'head\_down', 'looking\_elsewhere') plus mouth open, negative emotions, etc.

We also apply alpha smoothing (70% previous, 30% new) so Exertion doesn't jump from frame to frame.

Use these metrics to track overall well-being during an activity!

## Affective vs. Exertion Scores Over Time



## Annotated Frame #0



## Annotated Frame #303



## Annotated Frame #606



## Annotated Frame #909



## Annotated Frame #1212





## Annotated Frame #1515

