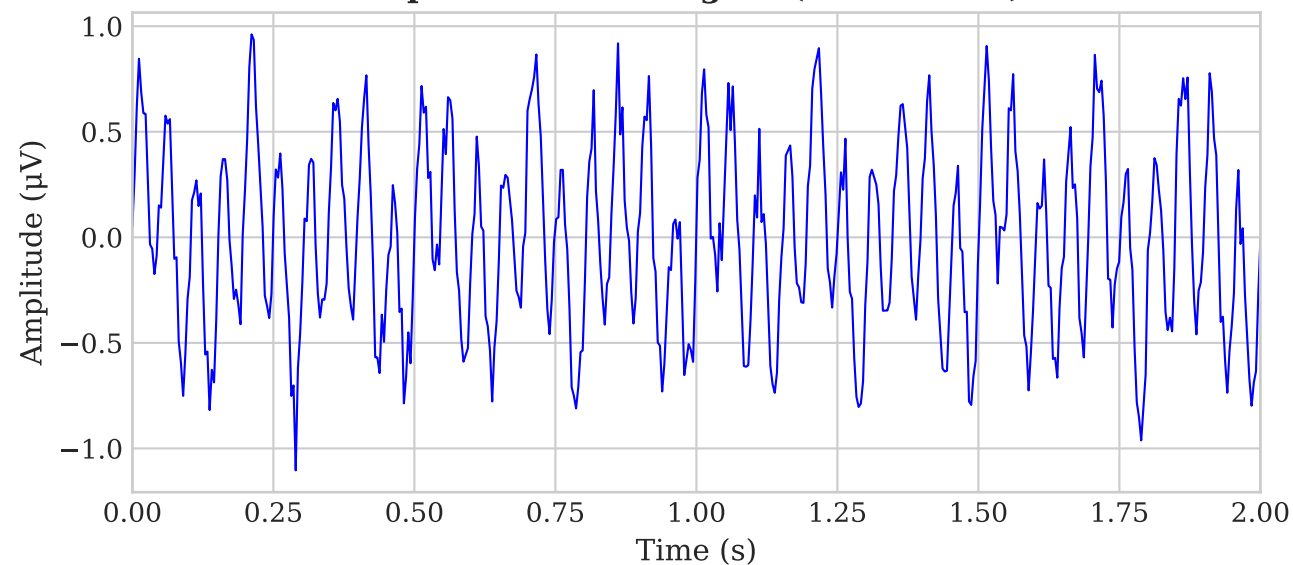
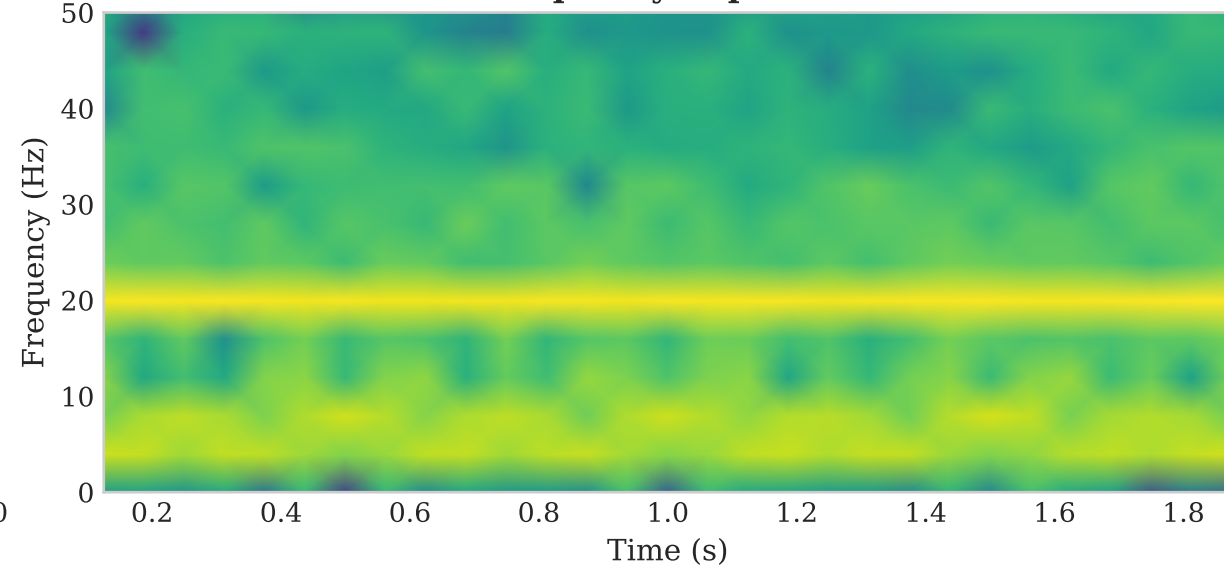


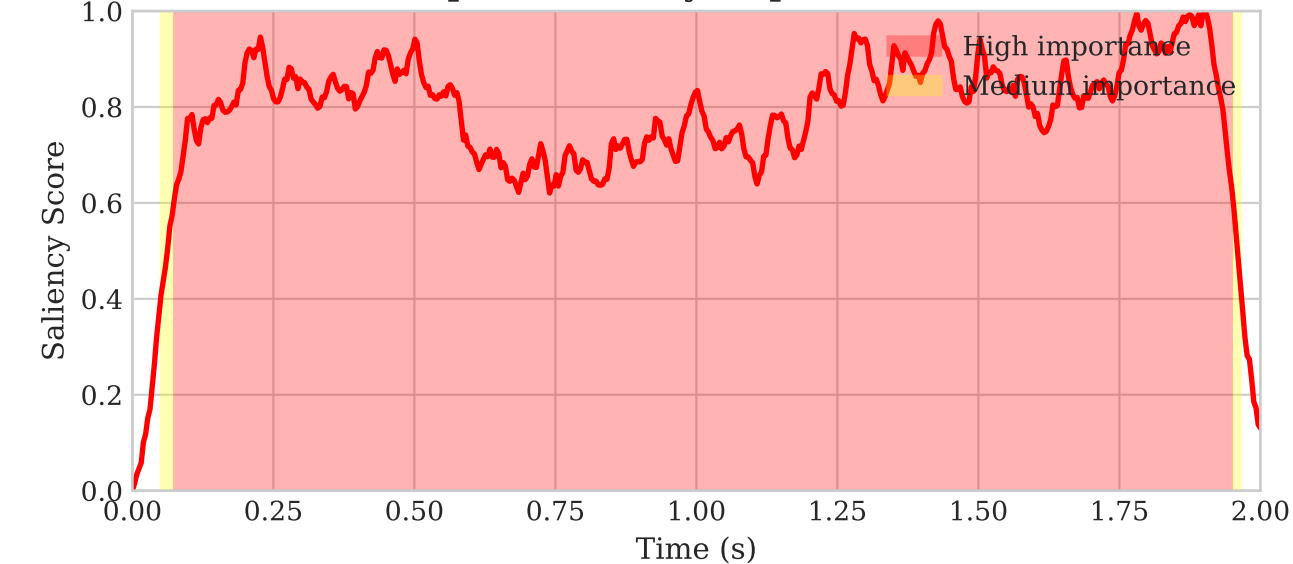
Input: Raw EEG Signal (Channel F4)



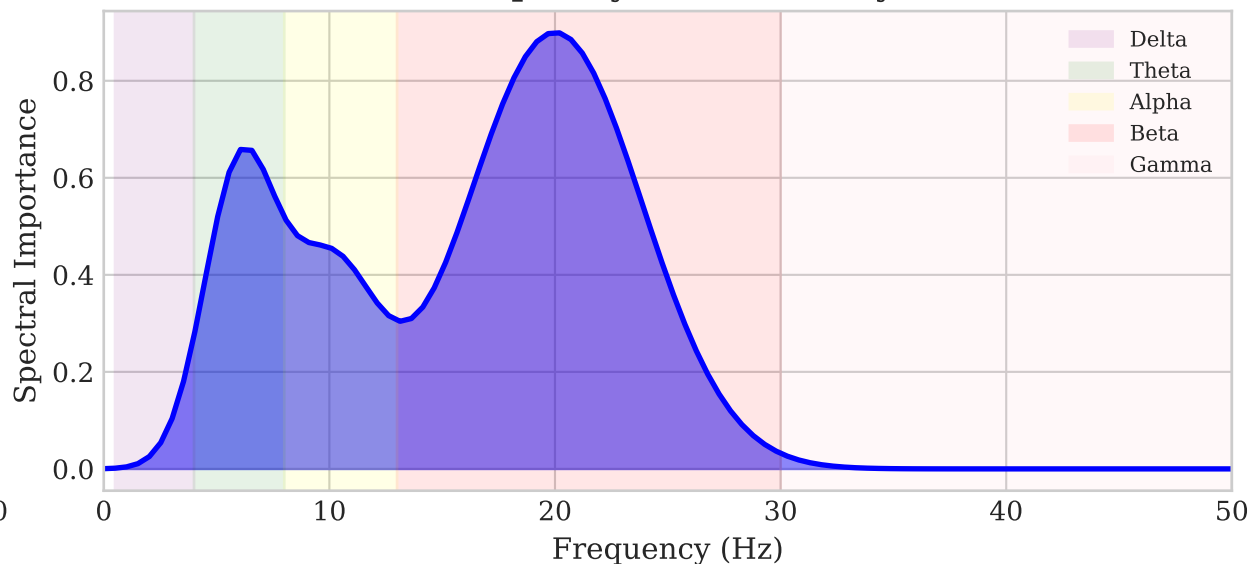
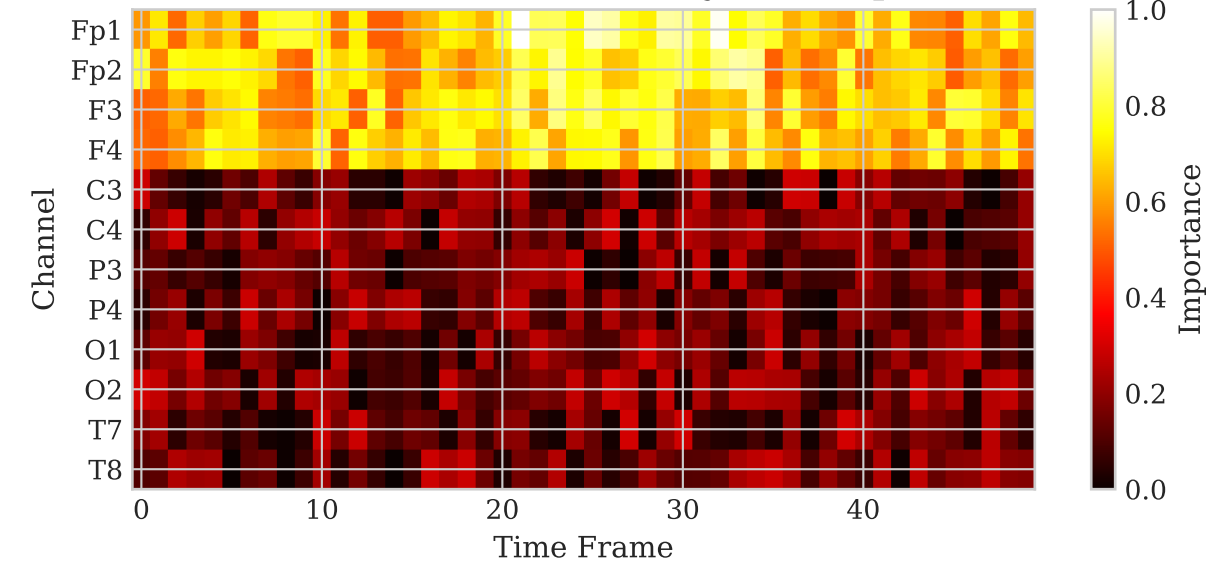
Time-Frequency Representation



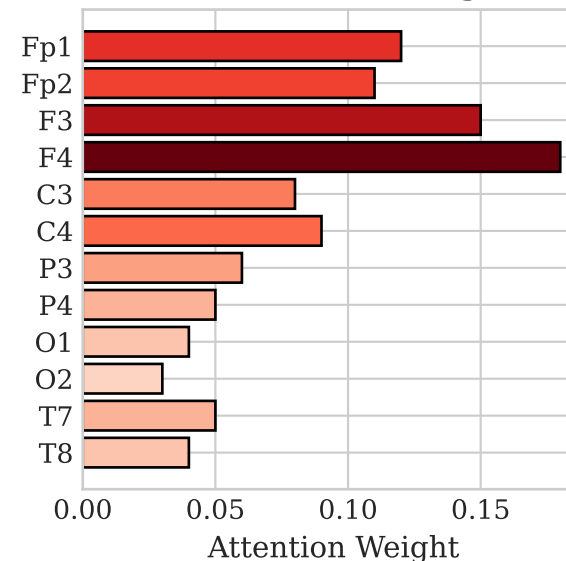
Temporal Saliency Map (Grad-CAM)



Frequency Band Saliency

Channel \times Time Saliency Heatmap

Self-Attention Weights



Model Interpretation

Grad-CAM Interpretation:

Key Findings:

- Frontal channels (F3, F4) show highest activation
- Beta band (13-30 Hz) most discriminative
- Time window 0.8-1.4s contains stress markers
- Alpha suppression detected at 10 Hz

Classification:

Class: STRESS
Confidence: 94.7%

Evidence:

- Elevated beta power
- Reduced alpha activity
- Frontal asymmetry