

Cardiac Arrhythmia Detection Report

Generated on February 27, 2026 at 14:36:48 | AI-Assisted ECG Analysis System

Patient Information

Record ID: 228
Analysis Date: 2026-02-27 14:36
Signal Duration: 2.0 seconds (720 samples @ 360 Hz)
Lead: MLII (Modified Limb Lead II)

Prediction Result

✓ Normal Sinus Rhythm Detected

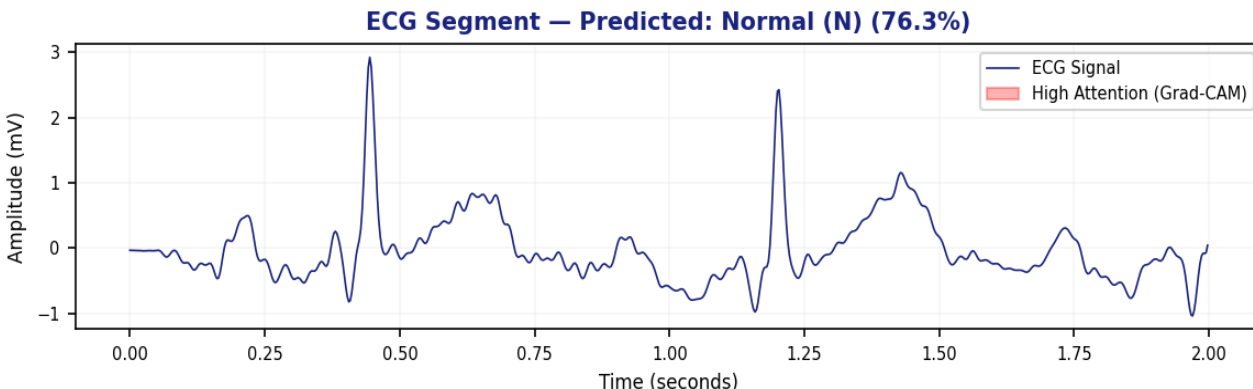
Predicted Class: Normal (N)
Confidence: 76.3%
Noise Level: 0.0%

Class Probabilities

Class	Probability
N	76.28%
S	11.48%
V	5.08%
F	6.59%
Q	0.57%

ECG Signal with XAI Heatmap

Red/warm regions indicate high contribution to the prediction. These highlighted areas correspond to morphological features that the AI model considers most important for its classification decision.



Model Explanation (Grad-CAM)

The model shows diffuse attention across the ECG segment for 'Normal (N)' prediction.

DISCLAIMER: This report is generated by an AI-assisted academic prototype system and is NOT intended for direct clinical use. All predictions should be reviewed by a qualified healthcare professional. This system is designed for research and educational purposes only.