

Cardiac Arrhythmia Detection Report

Generated on February 27, 2026 at 14:36:07 | AI-Assisted ECG Analysis System

Patient Information

Record ID: 124
Analysis Date: 2026-02-27 14:36
Signal Duration: 2.0 seconds (720 samples @ 360 Hz)
Lead: MLII (Modified Limb Lead II)

Prediction Result

■ Uncertain Prediction – Human Review Recommended

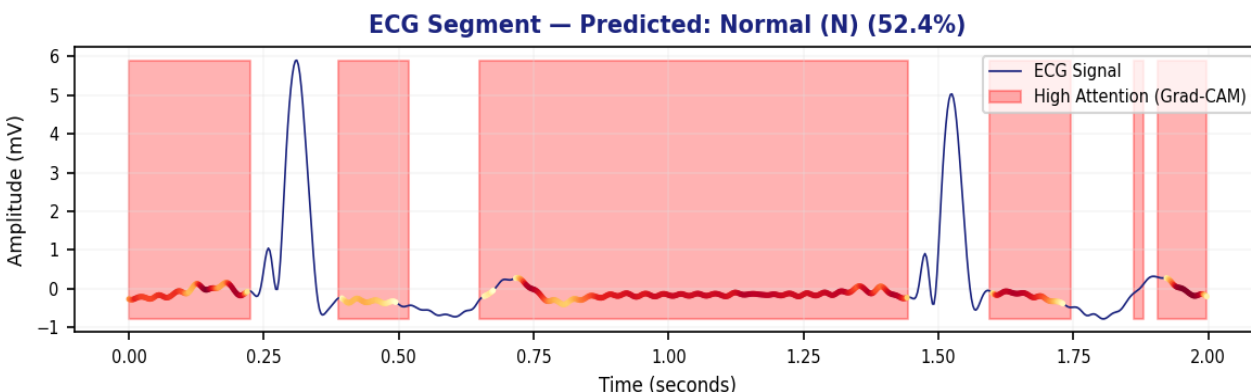
Predicted Class: Normal (N)
Confidence: 52.4%
Noise Level: 0.0%

Class Probabilities

Class	Probability
N	52.43%
S	11.80%
V	2.88%
F	32.07%
Q	0.83%

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)

Red/warm regions indicate high contribution to the 'Normal (N)' prediction. Key attention zones: samples 0–79, samples 142–178, samples 237–243, samples 258–519, samples 576–623, samples 692–719. These regions likely correspond to morphological features characteristic of Normal (N).

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.