

# Cardiac Arrhythmia Detection Report

Generated on February 28, 2026 at 13:26:22 | AI-Assisted ECG Analysis System

## Patient Information

Record ID:	208
Analysis Date:	2026-02-28 13:26
Signal Duration:	2.0 seconds (720 samples @ 360 Hz)
Lead:	MLII (Modified Limb Lead II)

## Prediction Result

### ■ Arrhythmia Detected: Ventricular (V)

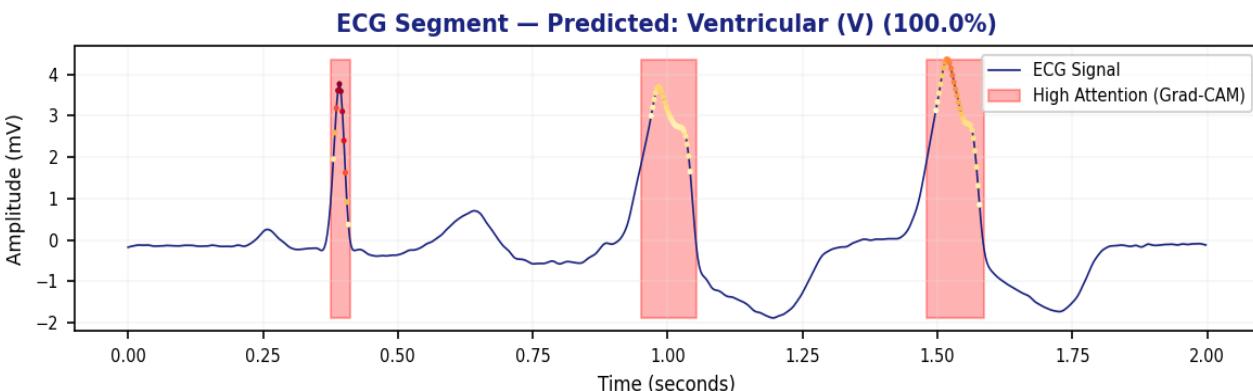
Predicted Class:	Ventricular (V)
Confidence:	100.0%
Noise Level:	0.0%

## Class Probabilities

Class	Probability
N	0.02%
S	0.00%
V	99.96%
F	0.02%
Q	0.00%

## 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 'Ventricular (V)' prediction. Key attention zones: samples 137–147, samples 349–375, samples 539–568. These regions likely correspond to morphological features characteristic of Ventricular (V).

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**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.