About this dashboard

This dashboard summarizes:

- Model quality on held-out test data
- Error balance (FN vs FP)
- Fairness across subgroups
- Clinical/business interpretation

This model is **not** a diagnostic tool.
It is intended for **early risk flagging / triage support**.

Key metric priority: **Recall on the positive (high-risk) class** to reduce False Negatives.

🩺 Heart Attack Risk Prediction Dashboard

Interactive summary of model performance, fairness, and clinical/business insights.

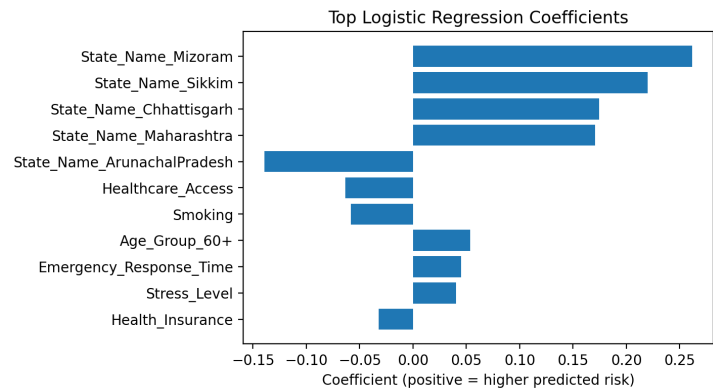📈 Model Performance   ⚖️ Fairness & Ethics   🩺 Clinical Interpretation

Which Features Drive Predicted Risk?

We use a regularized Logistic Regression model, which is inherently interpretable.

- Positive coefficient → pushes prediction toward **high risk**
- Negative coefficient → pushes prediction toward **low risk / protective**

Clinical / policy interpretation:

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- Higher predicted risk is associated with certain regions, delayed emergency response, older age, and elevated stress.
- Protective signals include access to insurance and healthcare, and non-smoking behavior.

The model is capturing both biology (age, cardiometabolic stress) and social determinants of health (access, environment). This is valuable for resource planning.

> This dashboard is intended for care teams / public health planners to prioritize outreach. It is NOT a standalone diagnostic model.