BMEN619 Heart Failure Prediction Evaluation Criteria

Veronica Obodozie

7 March 2025

# 1. Introduction

What are the tools

How's Explainability

- Generalizability

- Reliability

How to make reproducible

Experimental Design

This task is a supervised classification task.

# 2. Data Loading and preprocessing

Dataset Input strategy

**How missing data is handled**: from exploratory data analysis, no missing values were faound

**Multiple data types:** encode labels for features with categorical values in dataset

Literature backed justification to preprocessing strategies

Preprocessing

Handling Missing data

Normalization

.

# 3. Experimental Design

Considerations for reproducibility

How was data split, what’s the rationale

EXPERIMENTALDESIGN: Data Augmentation, data loader

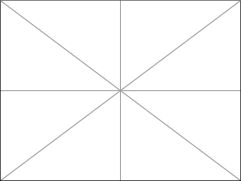
# 4. Evaluation Criteria

**Task appropriate metrics of evaluation**: Accuracy, Precision, Recall, F1-score

**Data characteristics and imbalance**: ?

Selection of Metrics (task, imbalance, characteristics).

**Explainability**: Infidelity, Sensitivity



**Fig. 1.** Example of placing a figure with experimental results.

# 5. References

[1] A.B. Smith, C.D. Jones, and E.F. Roberts, “Article Title,” *Journal*, vol. <volume>, no. <issue number>, pp. <page range>, Month Year.

[2] C.D. Jones, A.B. Smith, and E.F. Roberts, “Paper Title,” in *Proceedings Title*, Publisher, Location, Year, vol. <volume>, pp. <page range>.