**Professional Certificate in Machine Learning and Artificial Intelligence**

Portfolio Project – E. Kenny: Transparency and Interpretability

Model Card Analysis Exercise

The questions below will help you provide context for the Heart Failure Prediction Dataset (https://www.kaggle.com/datasets/fedesoriano/heart-failure-prediction). Provide answers where possible.

**Directions**

Answer the following questions related to these [example model cards](https://modelcards.withgoogle.com/model-reports) provided by Google. Questions 1-6 pertain to the face detection model, and questions 7-10 pertain to the object detection model.

1. What is the output of the model?
   * Answer: A prediction of whether or not the patient will develop heart disease.
2. What is the main model architecture?
   * Answer: K Nearest Neighbors
3. What metric is used to evaluate the model’s performance?
   * Answer: Confusion matrix and Accuracy scores
4. Limiting factors that may degrade the model’s performance.
   * Answer: \*Data drift (i.e. lower or higher ages, etc).