1. Performance Comparison between Traditional Models and Neural Network Models: How do traditional machine learning models (e.g., Random Forest, Gradient Boosting) compared to neural network-based models (e.g., CNN, RNN) in terms of accuracy and ROC AUC for heart failure prediction?
2. Powerful Predictors of Cardiovascular Disease and Myocardial Infarction: What are the most influential predictors of heart failure across different models, and how do they affect overall model performance?
3. Hybrid Stacking Model Potential: Can a hybrid stacking model that combines traditional machine learning and deep learning techniques provide superior predictive performance compared to single models?
4. Impact of Generative AI on Predictive Accuracy: How does the use of Generative AI, particularly GANs, in a stacking model improve performance compared to standalone models? Does it enhance generalizability and scalability across diverse healthcare settings?
5. How does the unique Stacking Generative AI model specifically contribute to advancements in the healthcare industry, particularly in predicting and managing heart failure?