

General Problem Statement

In plain English, what are we trying to achieve?

Technical Problem Statement

What is the technical approach to achieving above? Regression, classification, generative, LLM?

Data	Loss
What is the sample population? Type of data - image, chart, time series, multimodal Augmentations?	Classically, should match problem type: - Regression: MSE, Classification: Log loss/Multiclass log loss What is loss function rewarding? Consider regularization.
Network	Training
Classic neural net or with variations? autoencoder, GAN, RNN, LSTM, CNN, combo of these. If not sure, what's it closest to? If brand new, what kind of data can it take in and process well?	What hyperparameters were considered? Should have to do with the network structure Use of pretrained model weights? Train/test split—random, cross validation
Results	
Sensitivity/specificity, PPV/NPV, AU-ROC? Imaging: DICE, Hausdorff Distance Other measures of success? Clinical relevance? Risk of bias?	