Case Study Requirements:

* All data prep described
  + Imputation methods
    - Why did you choose that?
  + Size of data (features, examples)
  + How splits were performed
* Data Science Model(s) used
  + Configuration
    - Early Stopping
    - Loss Function/Metric Optimized
    - Other metrics monitored
  + Hyperparameters tested
    - (aka Ablation Study)
    - Random/Grid/Other/Combo
  + Best Hyper Parameters
* Results:
  + Continuous Problem
    - Loss metrics
    - Residuals
    - Plots of Predicted vs Target (All examples)
  + Classification Problem
    - Confusion Matrix (all examples)
    - Classification Report (all examples)
    - AUC-ROC
      * Binary Problems Only
    - Precision, Recall, Sensitivity, Specificity
* NO MORE
  + “Performed Well”
    - Results speak for themselves: Accuracy was X, Precision was Y
  + “Good Results”
    - See above
  + “Impressive”
    - Unless its state of the art, its not impressive and since NONE of the homework is on standard data, you will never have state of the art in this class.
  + Train/Test Splits
    - Cross Validate EVERYTHING