**Data Science for Mechanical Systems Assignment 4 (December/7/2021)**

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**Problem 1.**

1. **The Gini Index for the data set: 0.4675300607546925.**
2. **The value of splitting point: texture\_mean ≤ 19.47**

**Range: 9.71 < 19.47 ≤ 39.28**

1. **The value of splitting point (entropy = 0.953): texture\_mean ≤ 18.635**

**Range: 9.71 < 18.635 ≤ 39.28**

**Problem 2.**

1. **The Number of parameters in this NN: 26.**
2. **The value of the average prediction: 0.715533218076125.**
3. **The value of this error metric: 0.6983866220951158.**