ISTE_ML week4 Assignment 2011T236

- 1. The data given can be one-hot encoded to convert the same into numerical form. The same can then be processed through KNN algorithm.
- 2. Z-Score=2,

P(x < Z) = 0.97725 -> 97.725% of the trees are shorter than 120cm.

P(x>Z) = 0.02275 -> 2.275% of the tress are taller than 120cm.

Hence, it is uncommon for a tree to have height=120cm.

3. Z-score=0.47

 $P(x < Z) = 0.68082 \rightarrow 68.8\%$ of socks are shorter than the given value.

P(x>Z) = 0.31918 -> 31.918% of socks are longer than the given value.

4. Given P(x < Z) = 0.96,

$$=>Z = 1.751$$

Simplifying, we get the required dead weight lift to get pro card to be 540lbs.

5. The problem has been solved in an pynb file.