**QTW-Week 7 Presession Submission-Decision Trees**

**This week was all about Decision Trees**

**Entropy:** It is a measure of randomness or disorder. Information gain is inversely proportional to loss of order. As the entropy (loss of order/ disorder) decreases, there is increase in information gain.

Diagram, text

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* Entropy includes both log and probability terms.
* Base of log for entropy is equal to 2.

**Gini Impurity:** It the measure of information gain from decision trees.

**Text

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* Gini impurity includes only probability term

Predictions in linear model lies in single plane but predictions in non-linear model (partition trees) creates different surfaces.

The videos provide interesting information on Bagging, Random Forest, Partition Trees, Decision Trees.