Developing a Flight Delay Prediction Model using Machine Learning

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TEAM MEMBER :

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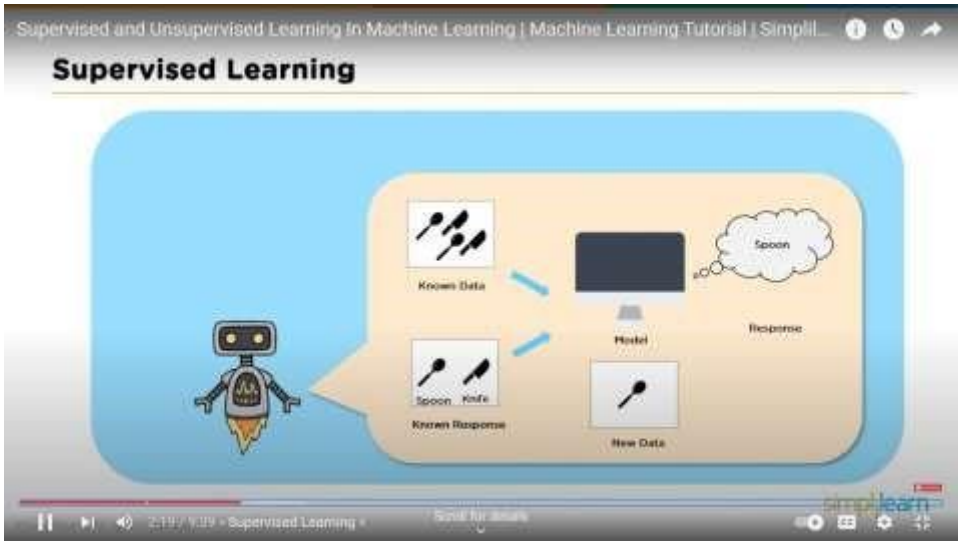
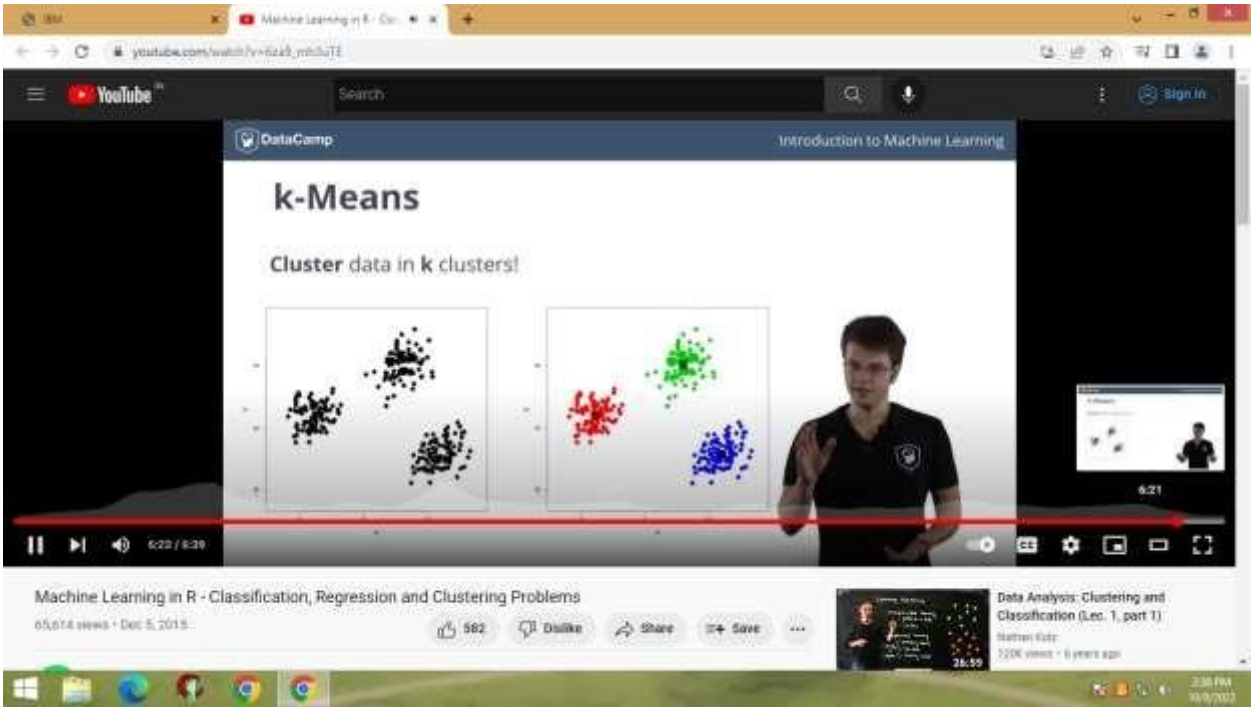
Prior Knowledge:

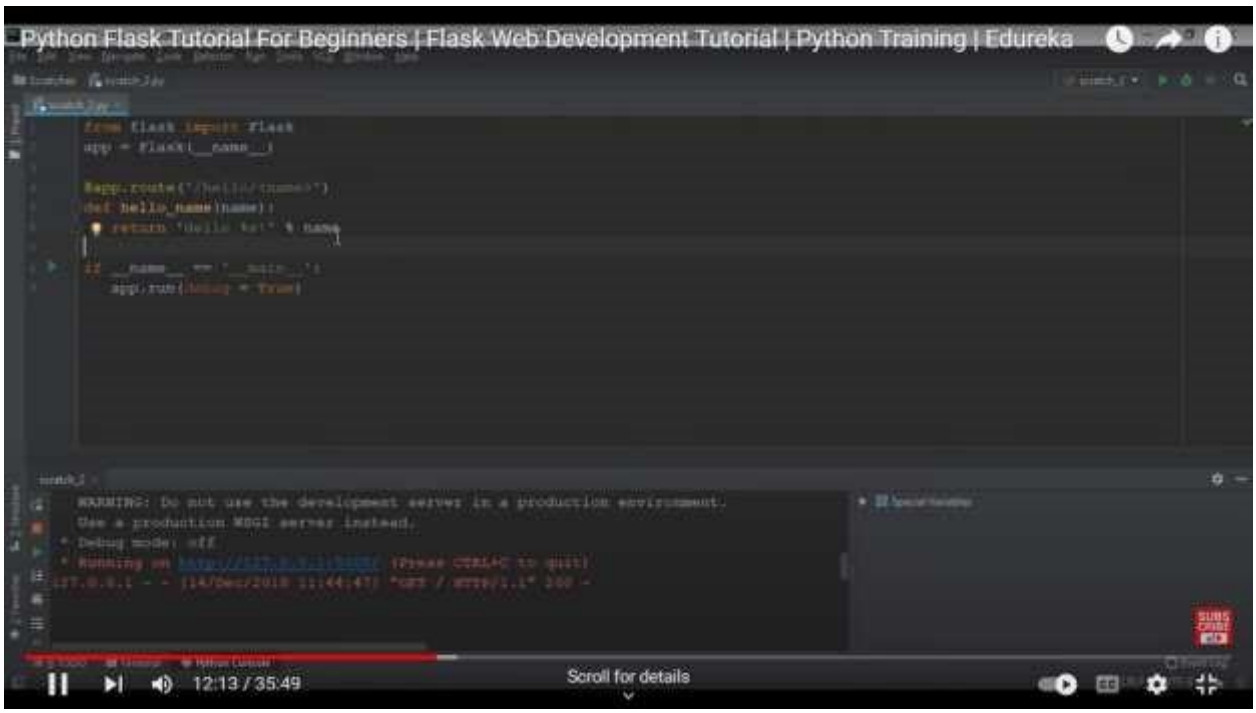
Supervised and unsupervised learning:

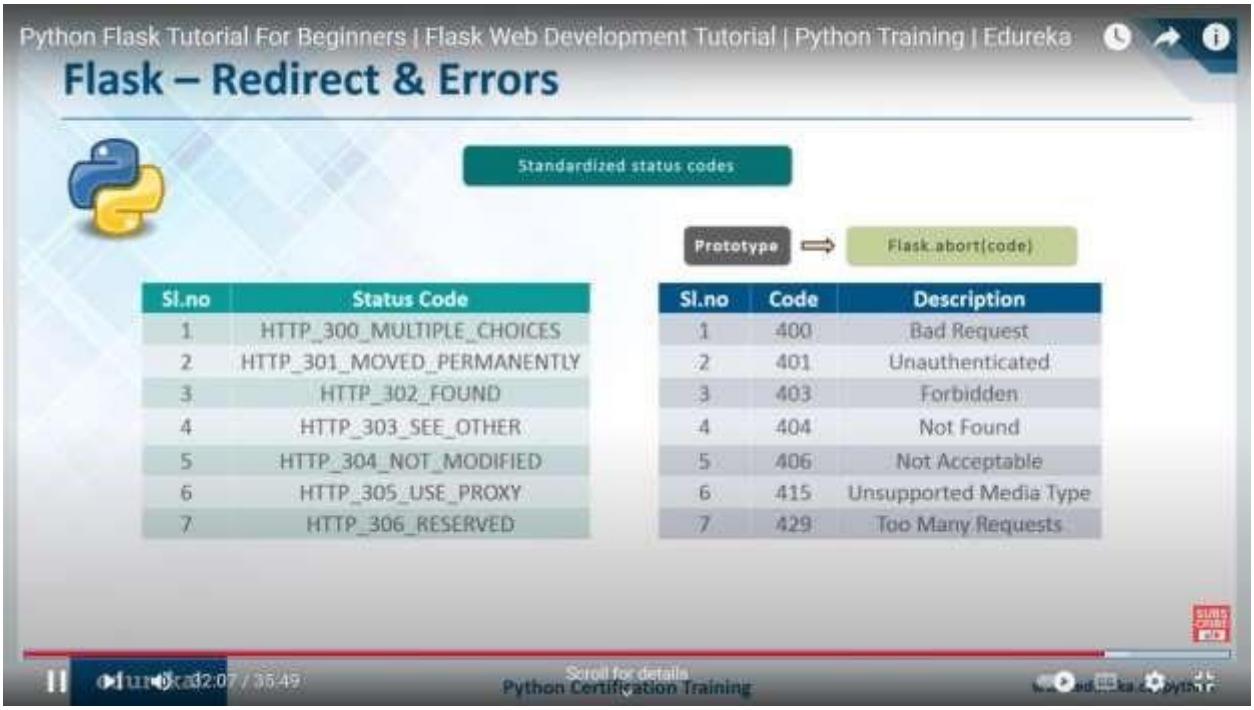


Regression Classification and Clustering:



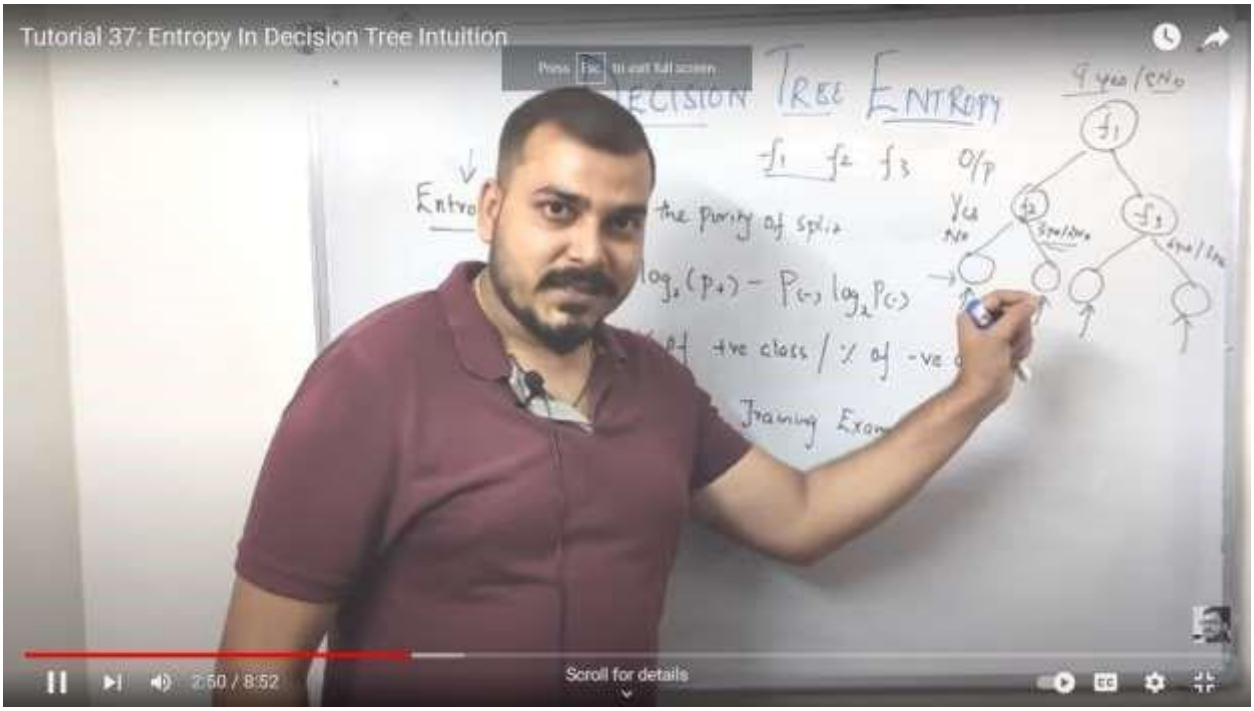
Flask:

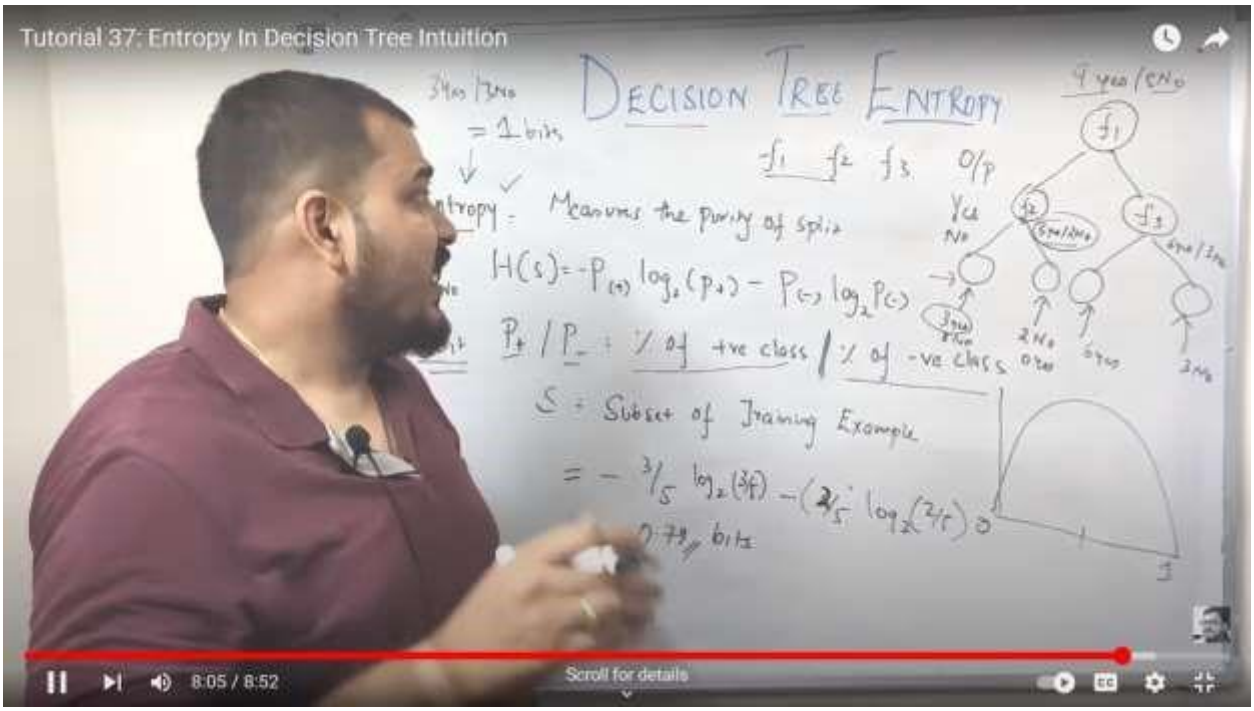




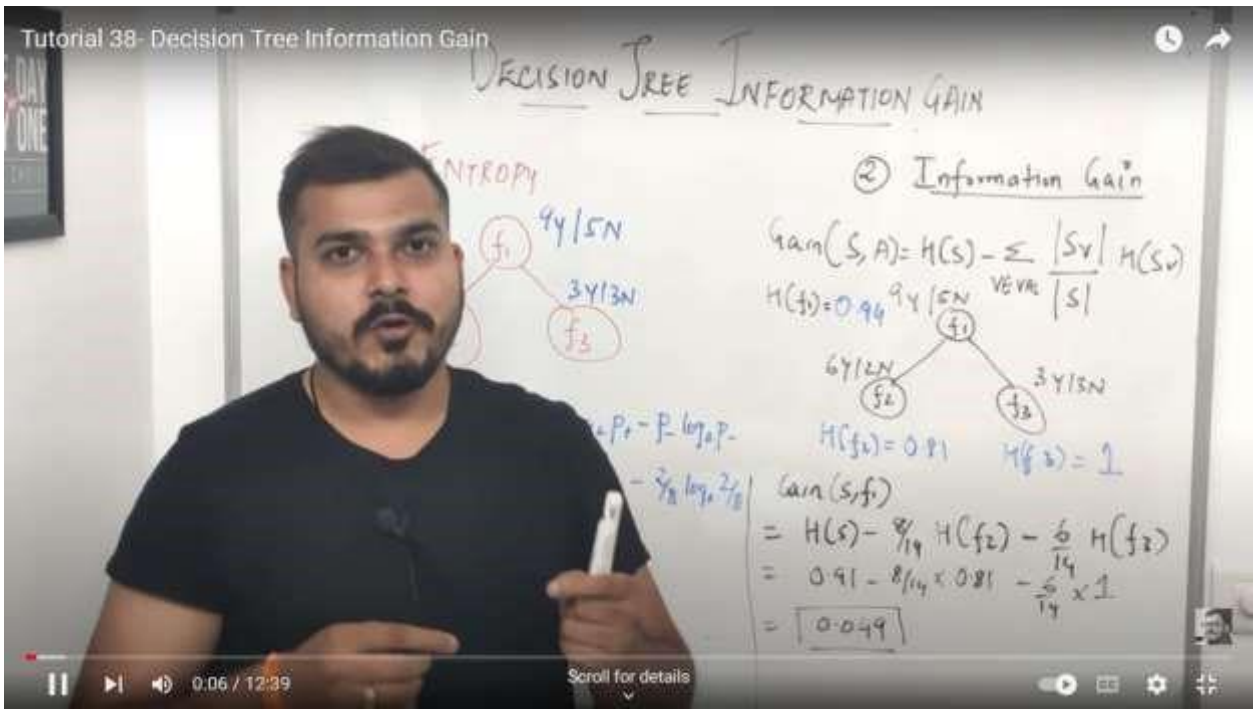
Decision Tree:

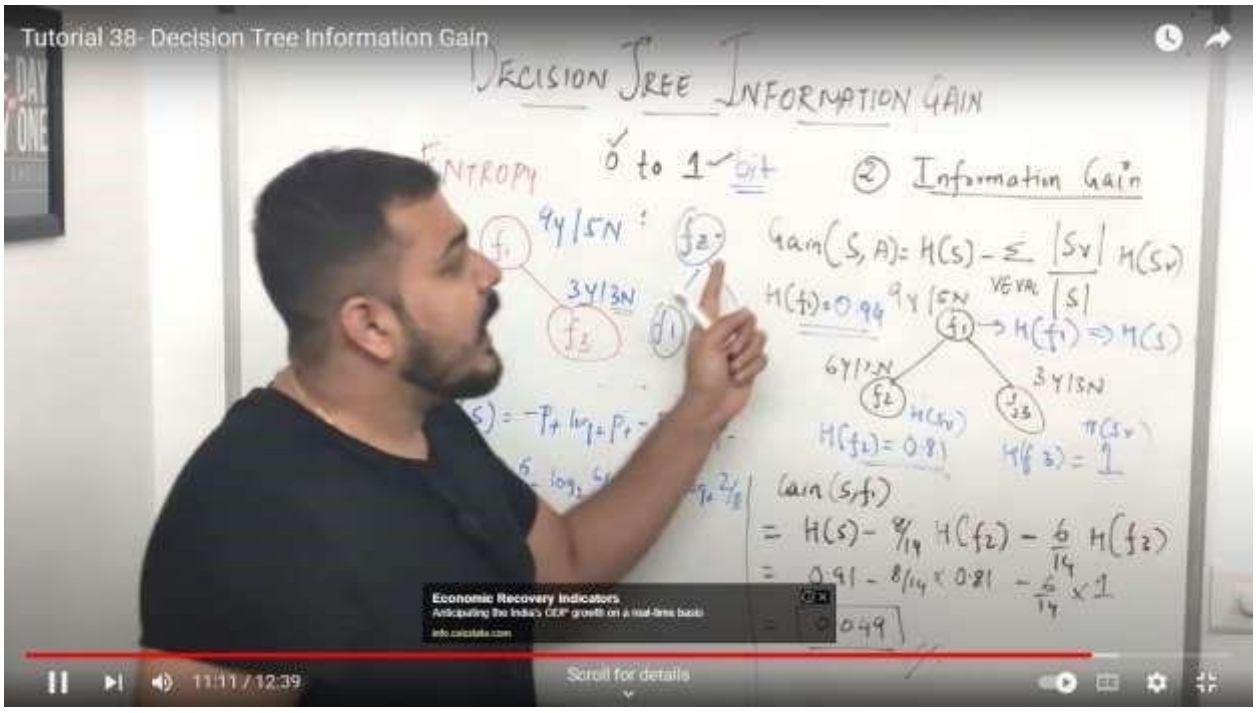
Entropy in Decision Tree Intuition:



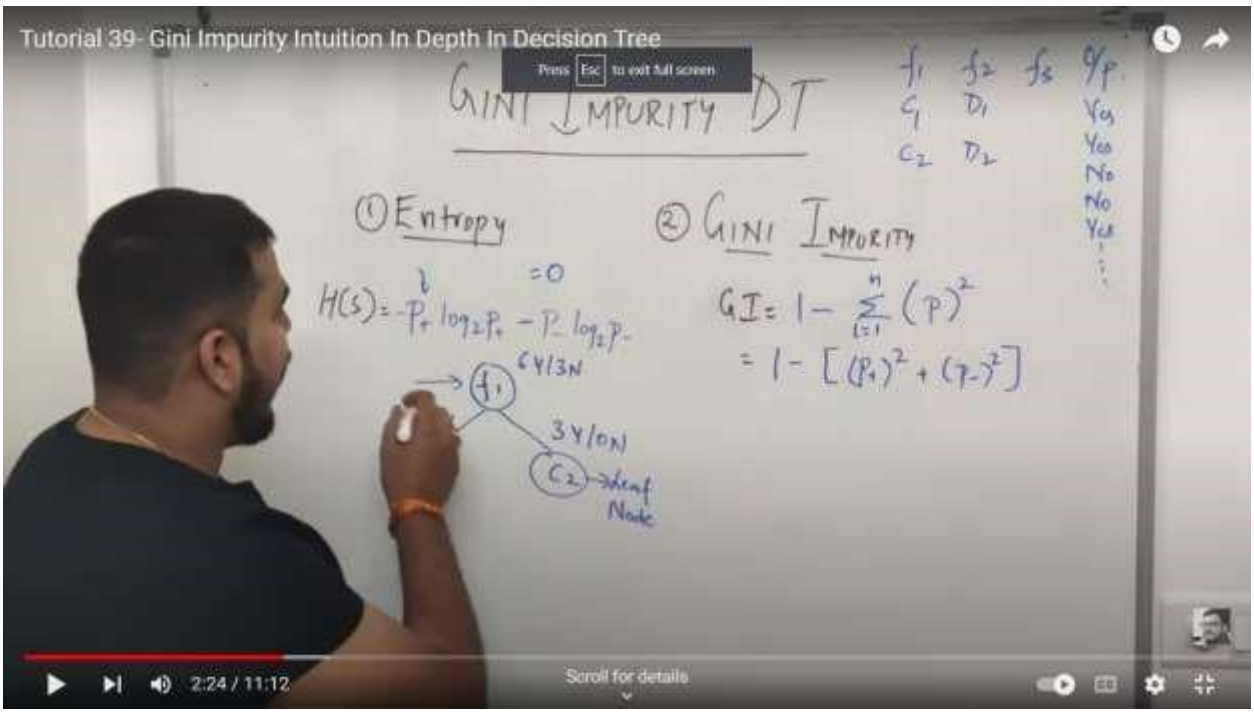


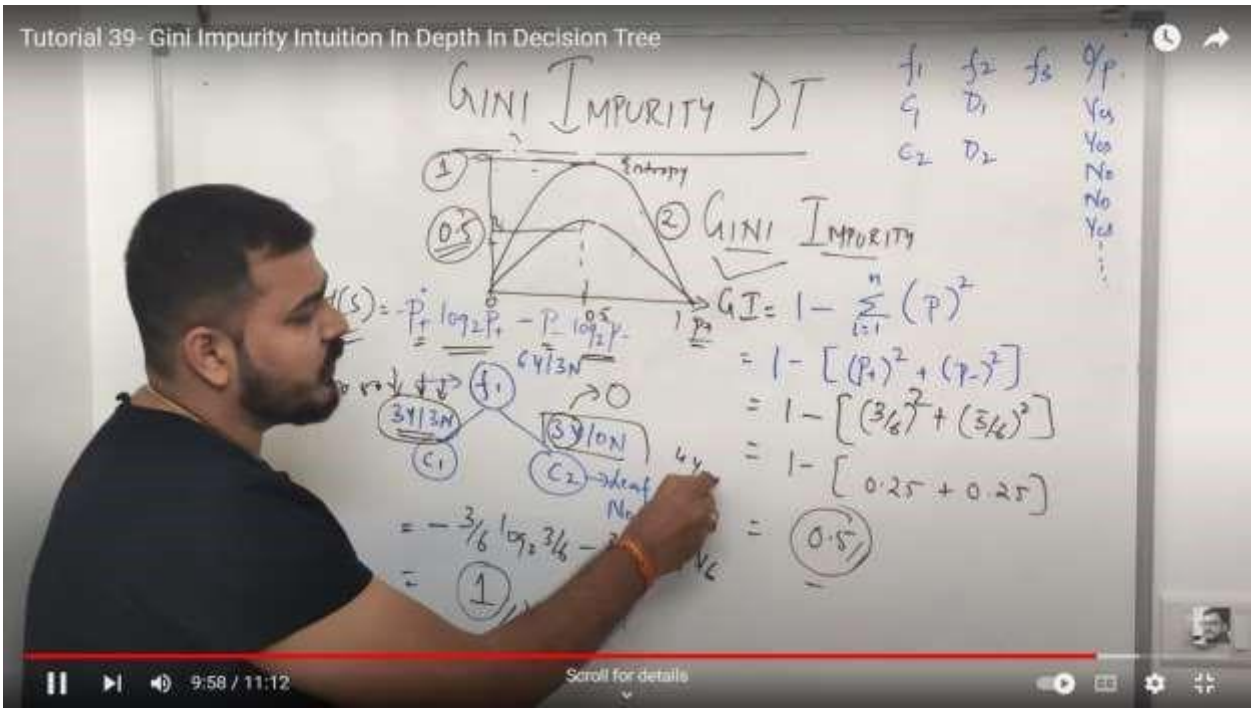
Decision Tree information gain:





Gini Impurity intuition in depth in Decision Tree:


Tutorial 39- Gini Impurity Intuition In Depth In Decision Tree
Press Esc to exit full screen
GINI IMPURITY DT
f1 f2 f3 O/P
C1 D1 Yes
C2 D2 Yes
No
No
Yes
① Entropy
② GINI IMPURITY
=0
H(S) = -P+ log2P+ - P- log2P-
GI = 1 - Σ (P)^2
= 1 - [(P+)^2 + (P-)^2]
6Y/3N
3Y/0N
Leaf Node
2:24 / 11:12
Scroll for details


Tutorial 39- Gini Impurity Intuition In Depth In Decision Tree
GINI IMPURITY DT
f1 f2 f3 O/P
C1 D1 Yes
C2 D2 Yes
No
No
Yes
Entropy
② GINI IMPURITY
GI = 1 - Σ (P)^2
= 1 - [(P+)^2 + (P-)^2]
= 1 - [(3/6)^2 + (3/6)^3]
= 1 - [0.25 + 0.25]
= 0.5
6Y/3N
3Y/3N
3Y/0N
Leaf
9:58 / 11:12
Scroll for details