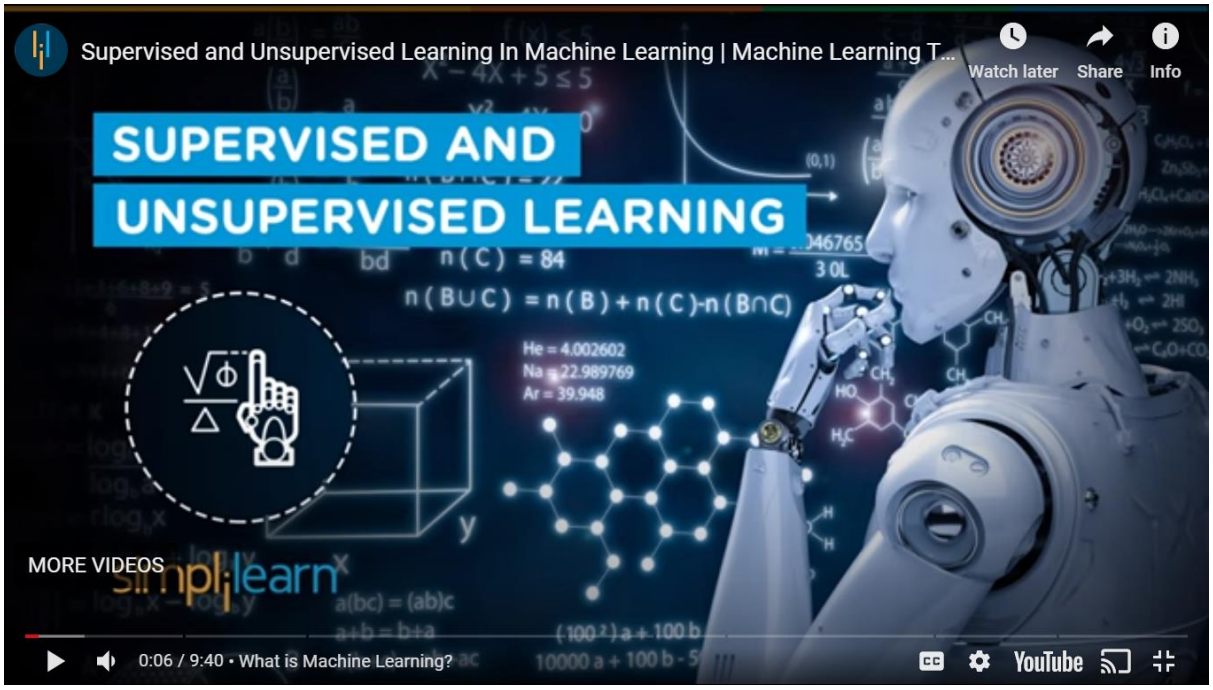
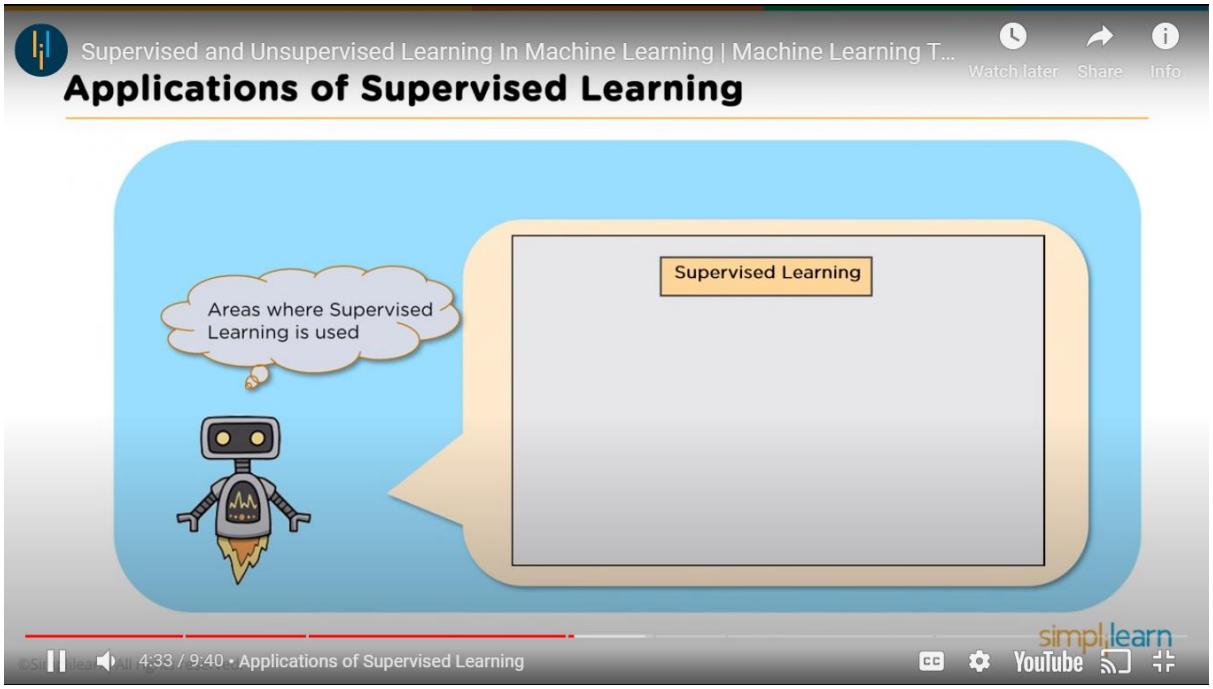
Developing a Flight Delay Prediction Model using Machine Learning

Team ID-PNT2022TMID27775

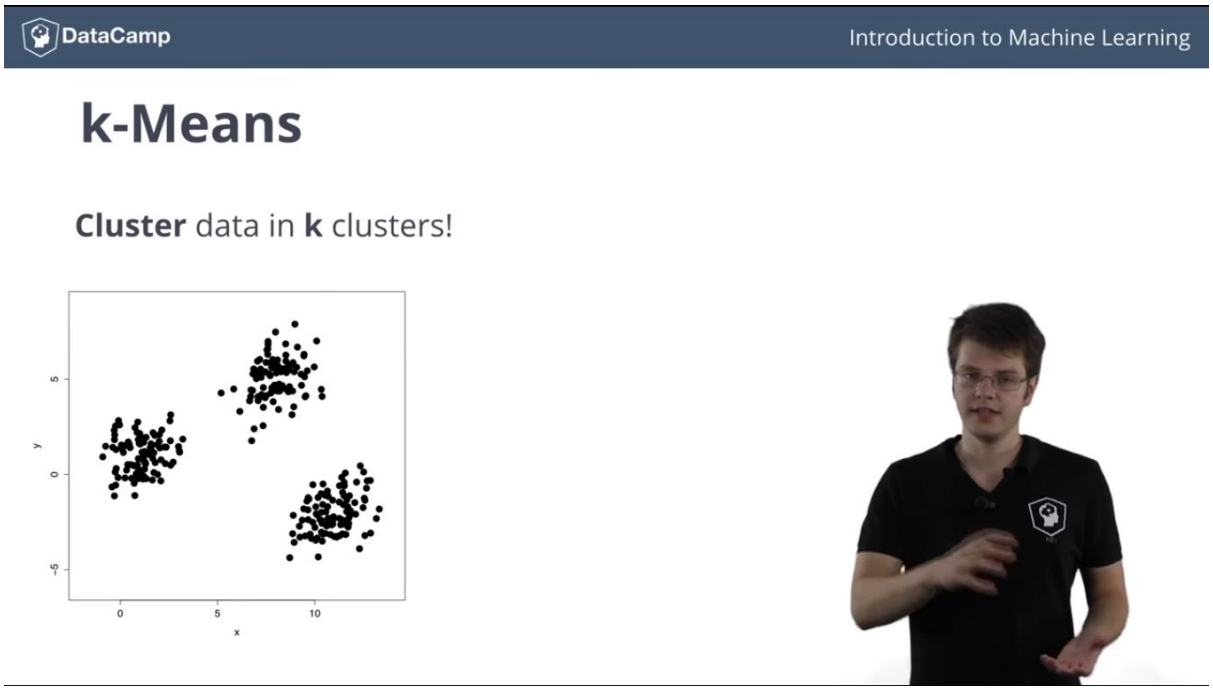
Prior Knowledge:

Supervised and unsupervised learning:





Regression Classification and Clustering:



Flask:

Flask – Redirect & Errors

Standardized status codes

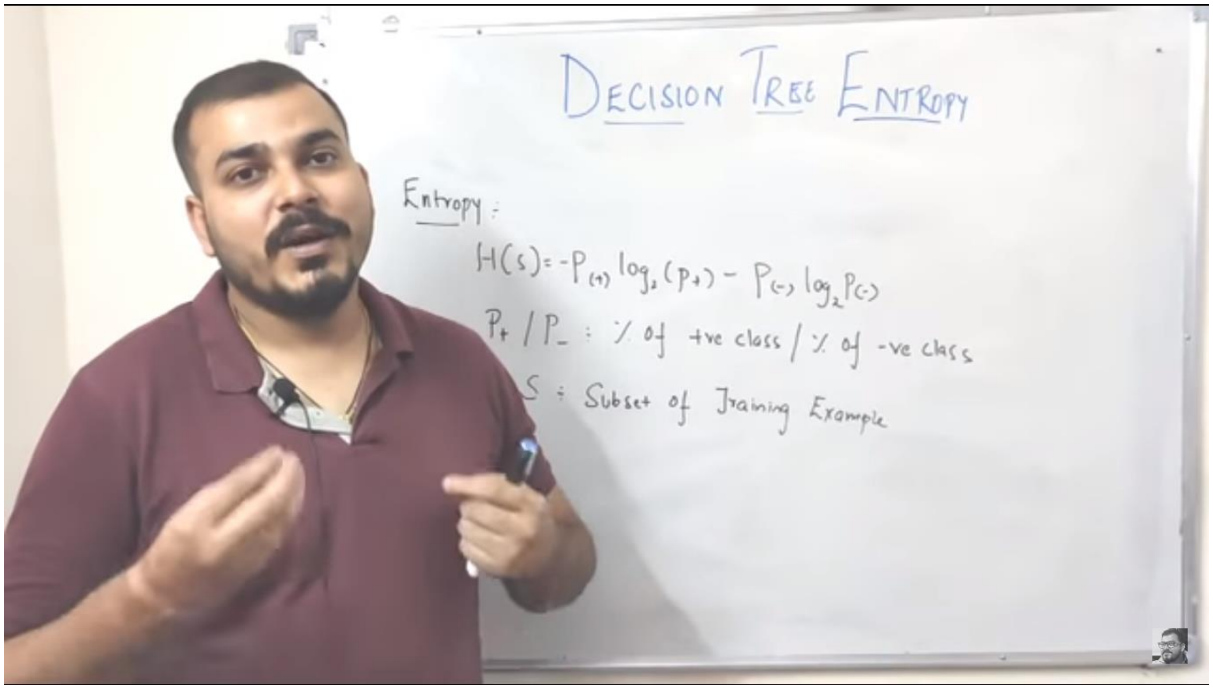
Prototype ⇨ Flask.abort(code)

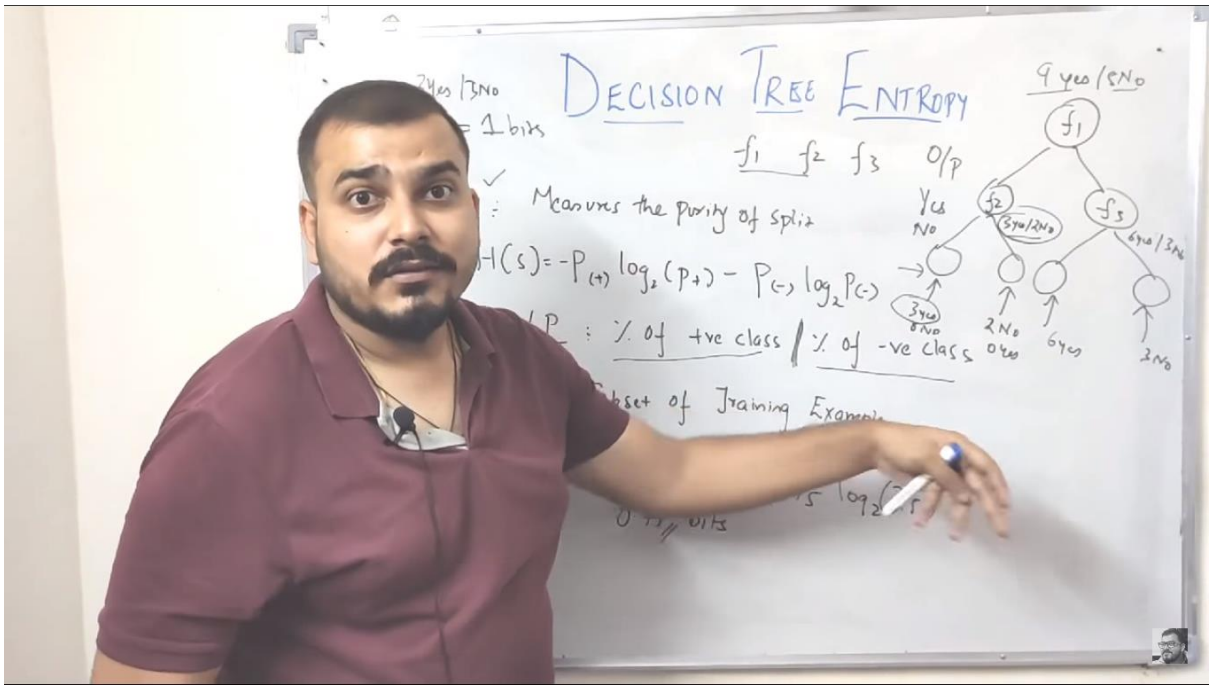
Sl.no	Status Code
1	HTTP_300_MULTIPLE_CHOICES
2	HTTP_301_MOVED_PERMANENTLY
3	HTTP_302_FOUND
4	HTTP_303_SEE_OTHER
5	HTTP_304_NOT_MODIFIED
6	HTTP_305_USE_PROXY
7	HTTP_306_RESERVED

Sl.no	Code	Description
1	400	Bad Request
2	401	Unauthenticated
3	403	Forbidden
4	404	Not Found
5	406	Not Acceptable
6	415	Unsupported Media Type
7	429	Too Many Requests

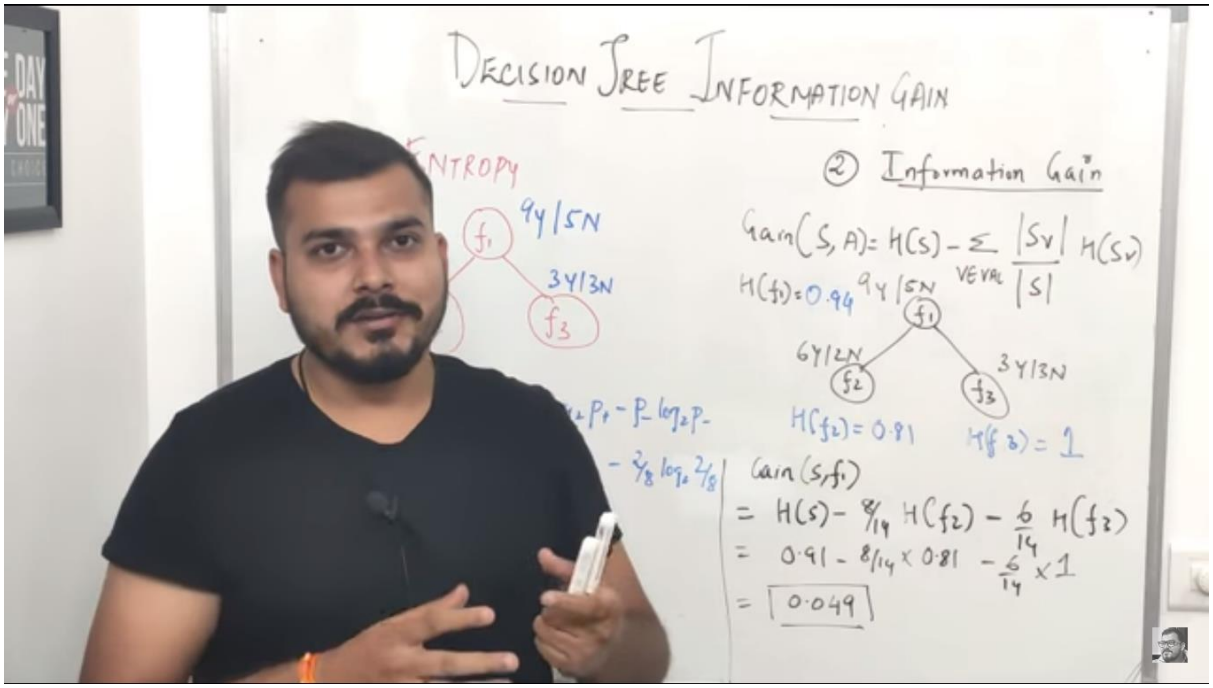
Decision Tree:

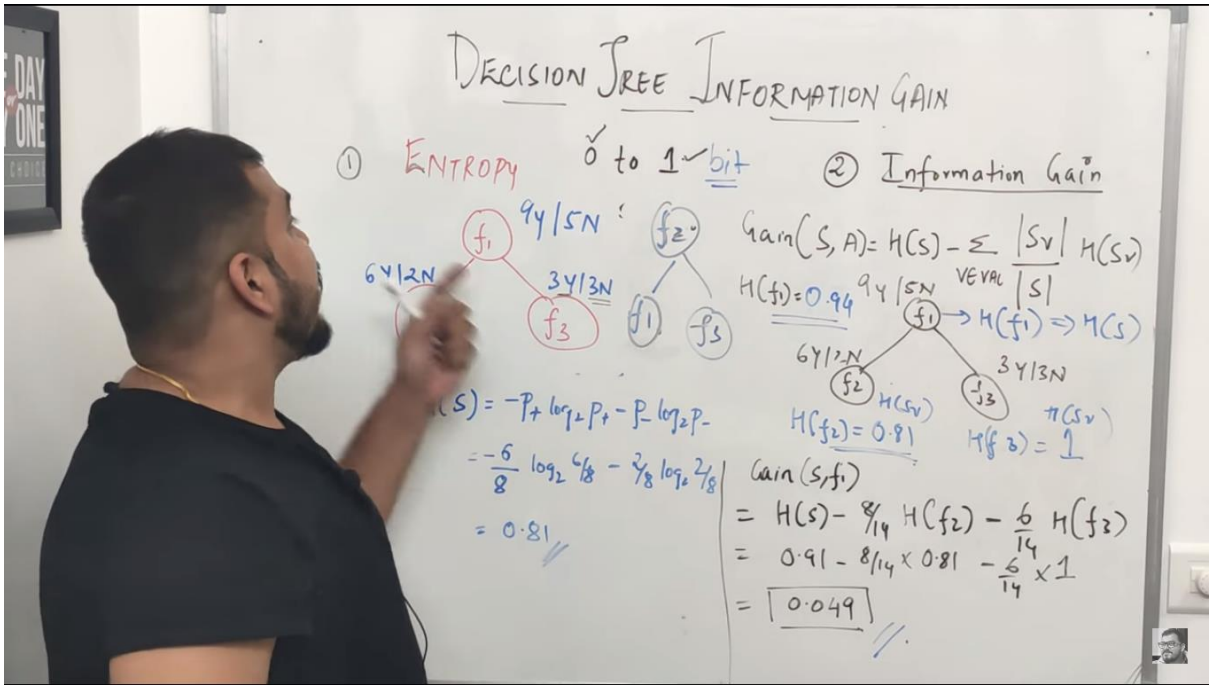
Entropy in Decision Tree Intuition:



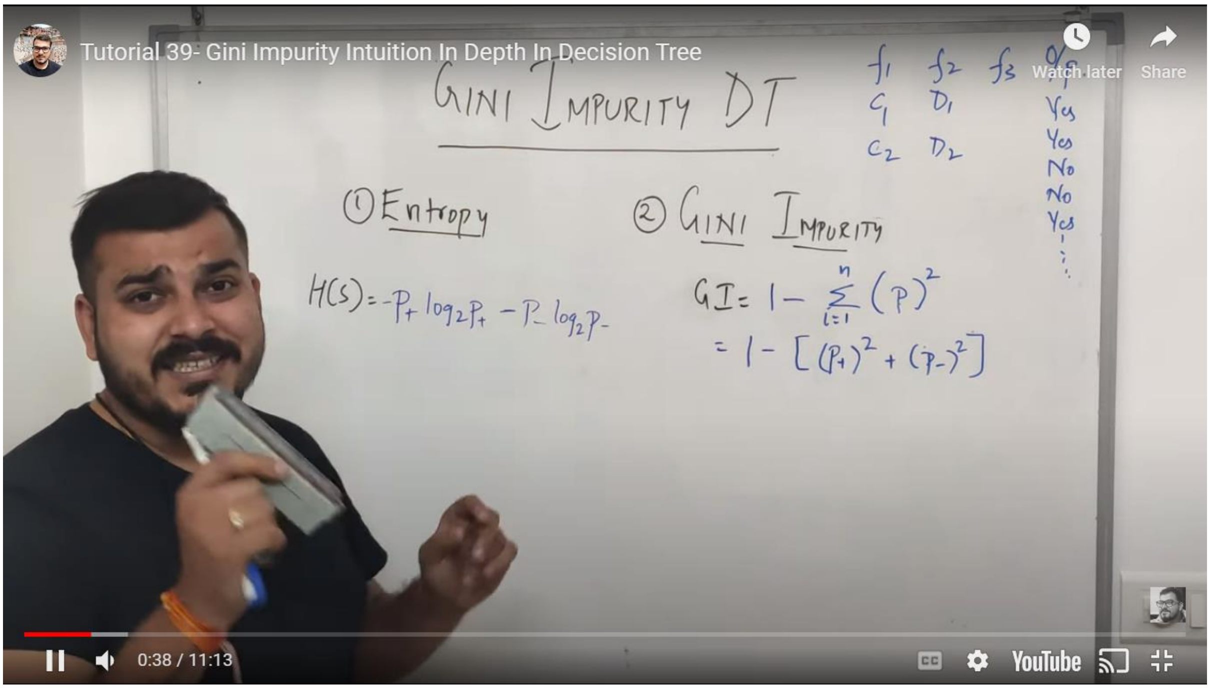


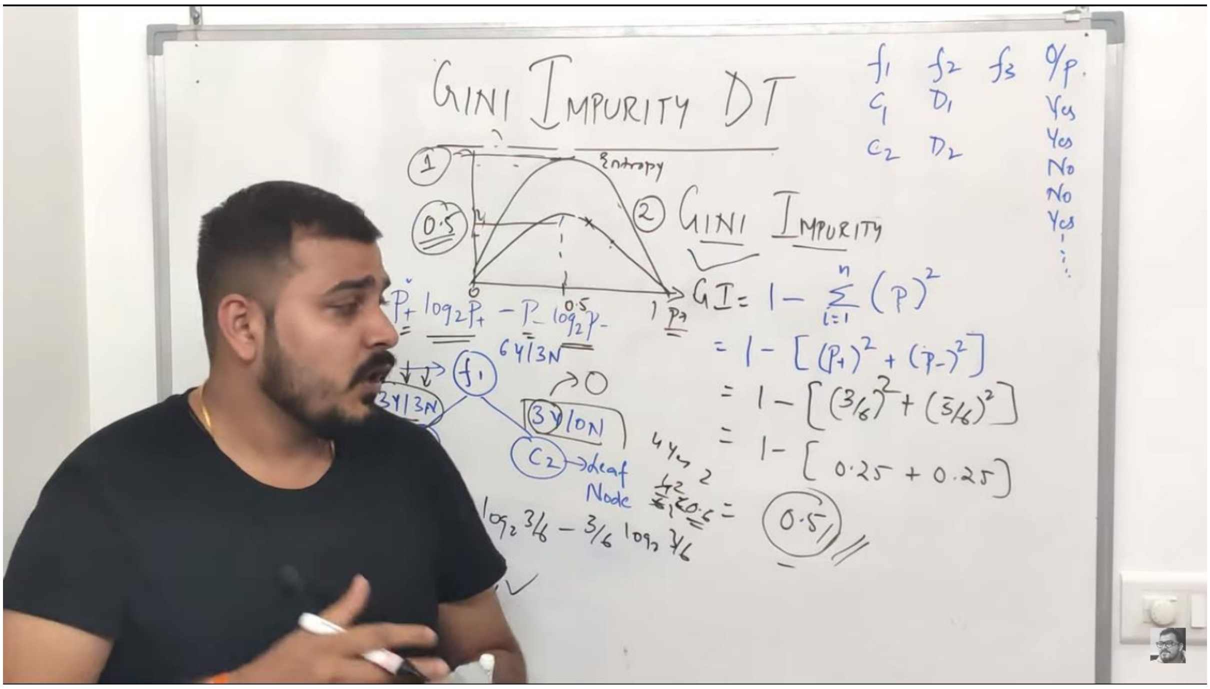
Decision Tree information gain





Gini Impurity intuition in depth in Decision Tree:


Tutorial 39- Gini Impurity Intuition In Depth In Decision Tree
Watch later
Share
GINI IMPURITY DT
f1 f2 f3 O/p
C1 D1
C2 D2
Yes
Yes
No
No
Yes
① Entropy
② GINI IMPURITY
H(S) = -P+ log2 P+ - P- log2 P-
GI = 1 - Σ (p)²
= 1 - [(P+)² + (P-)²]
0:38 / 11:13
YouTube


GINI IMPURITY DT
f1 f2 f3 O/p
C1 D1
C2 D2
Yes
Yes
No
No
Yes
Entropy
② GINI IMPURITY
GI = 1 - Σ (p)²
= 1 - [(P+)² + (P-)²]
= 1 - [(3/6)² + (3/6)²]
= 1 - [0.25 + 0.25]
= 0.5
6Y/3N
3Y/3N
3Y/0N
Leaf Node