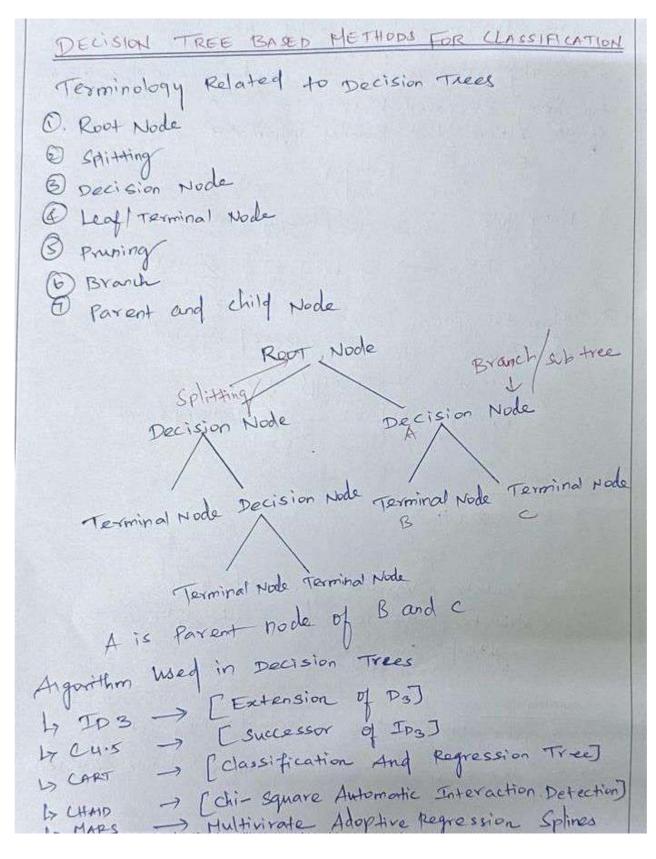


SNS COLLEGE OF TECHNOLOGY



AN AUTONOMOUS INSTITUTION COIMBATORE 35

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



ID3 Algorithm - [Introphy (4) gain (IG) * Entrophy is a measure of randomness in the information being processed. Flipping a coin is an Rnample of an action that Provides information that is random of an action that Provides information E(s) = & - Pi log 2 Pi play goy = Entropy (519)

Yes No -> = ECTIX) = Z P(C) ECC)

OF THE STATE OF THE STA T-> Current State X-> selected Attribute. * Information gain = Entropy (T) - Entropy (Tix) = Entropy (before) - E Entropy (jighter) * Variance £(x-x)° O. Calculate Variance for each node @ Calculate Vamance for each Split as the weighted average. Pruring Sufrecatting the actual training set into 2 Sets: training data Set, D and Validation datasat

