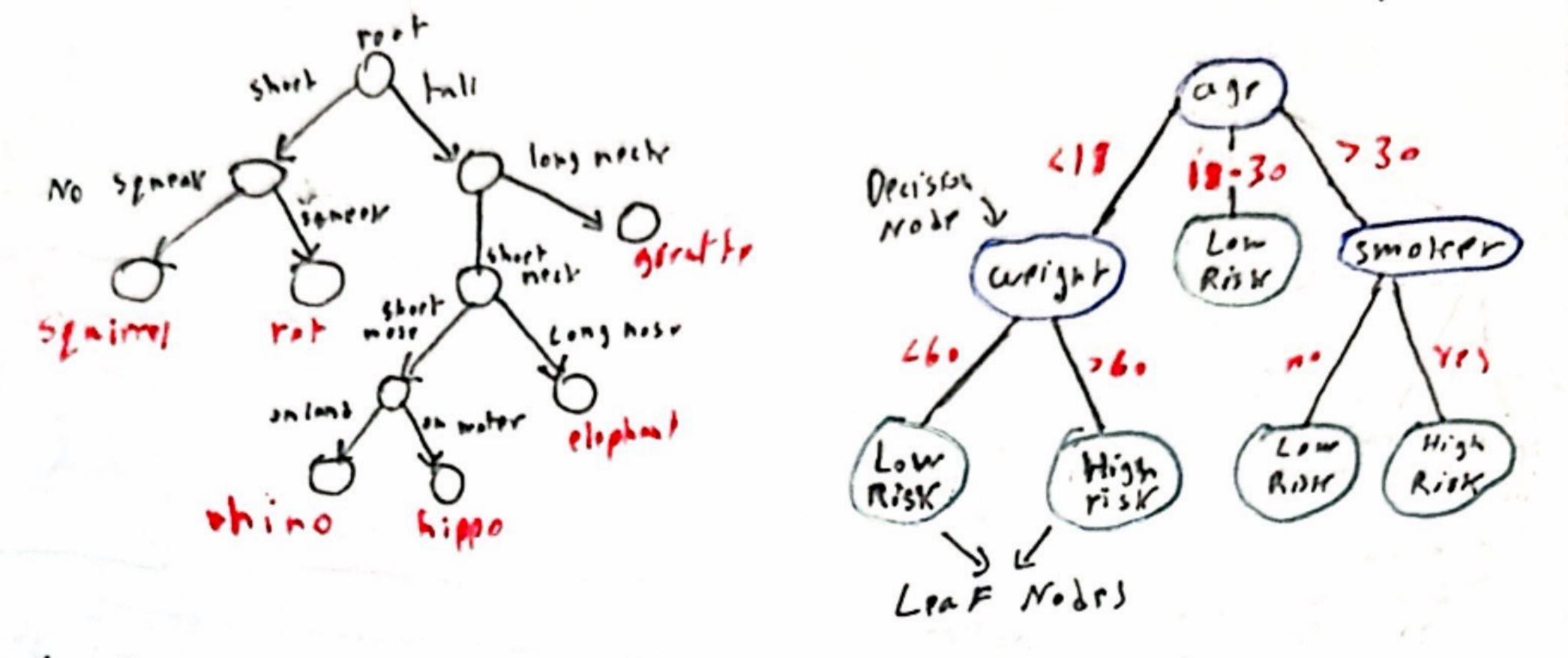
De cision trees

(- classification)

- a tree with a series of Yes No style anestions Plat allow us to partition a data set into several Dimentions

· Anind classifier

· Heart attack Risk



A the goal of this algo is to have Leat nodes that are ds pure as possible is instead of roadonly spliting 120 data 5011.4 B we try to find splits split A 1tight prarity Low prarily That I rad to the resulting groups of Iraks to be a + 6 SF TL SF pury as possibly it as Fru dutapoints ove mil classifind 3/3 3/3

Insemble Algorithms

- a decision tree is simple but we can make it powerful by combining many decision tree logothers combining many simply ML models to a better model is called Ensemble Algorith there are many typess of ensuables some adissusses in next pages

- Max Depl: is a hyperparameter that limits how many splits (levels) the free can make from root & Deepert leaf it controls the complexity of tree (how de tailed it can be inspliting data). if max Depth too small & free country capture enough patterns --> Under firting. max Depth too big or nationited a tree keeps splitting until Leaves are pureonce may light limit is reached node not pure has 24 mixed closes so it choses the majority class.

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