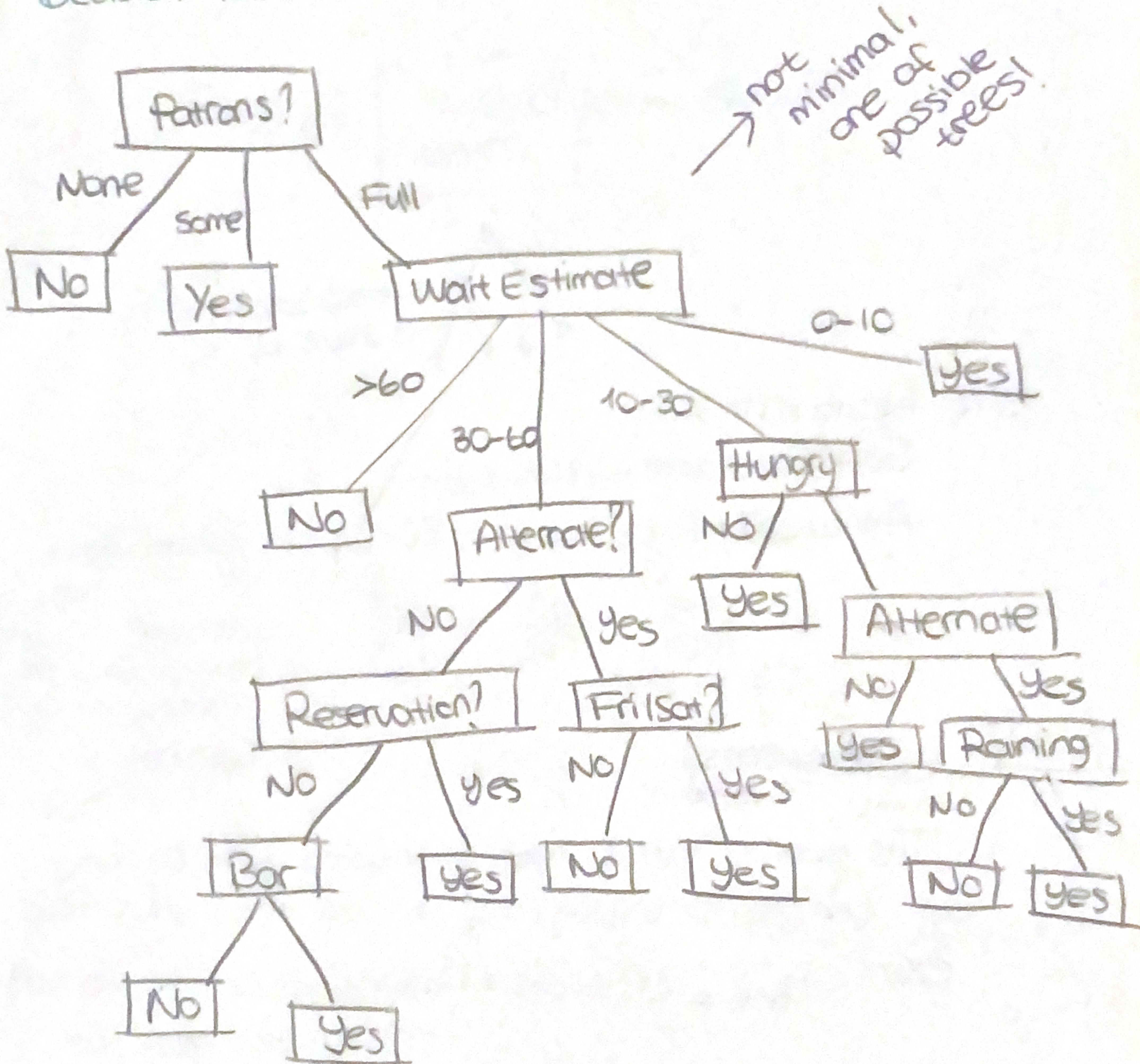
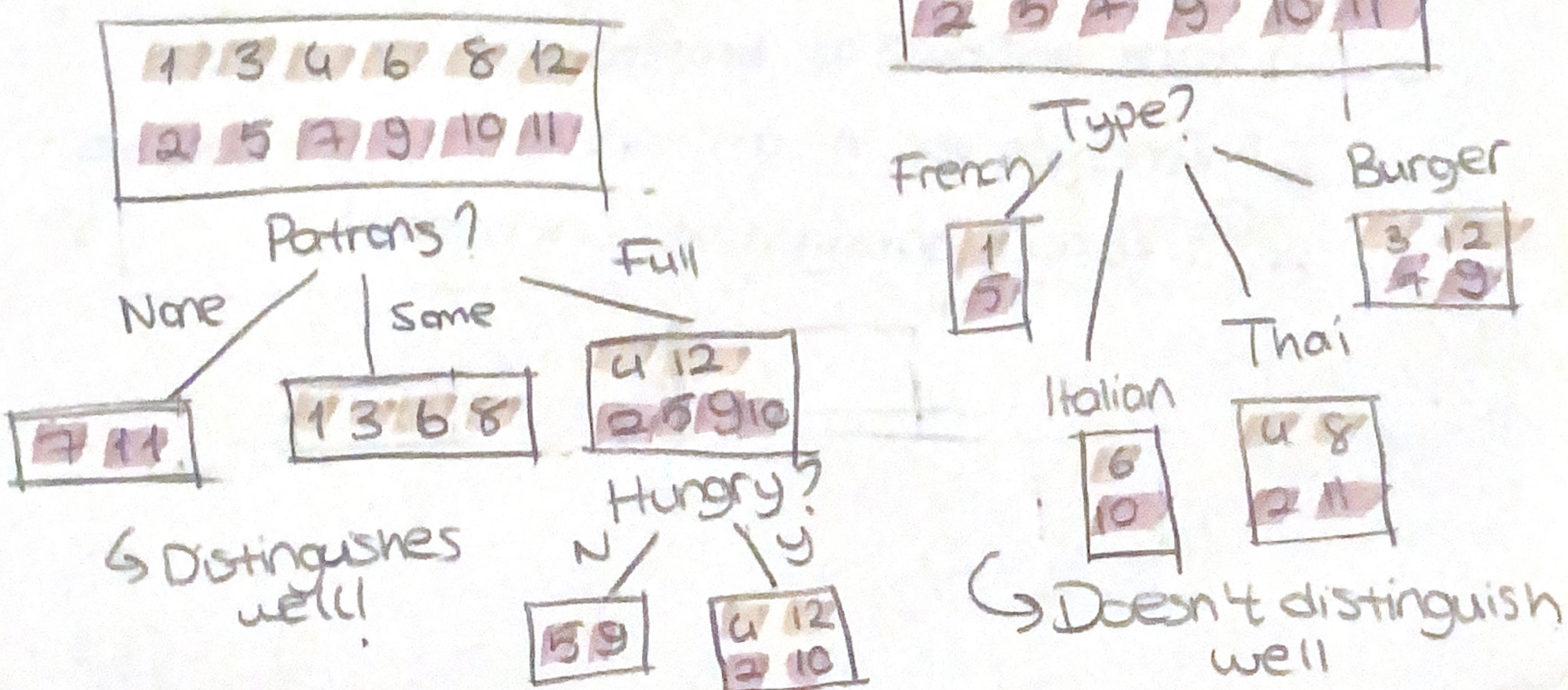


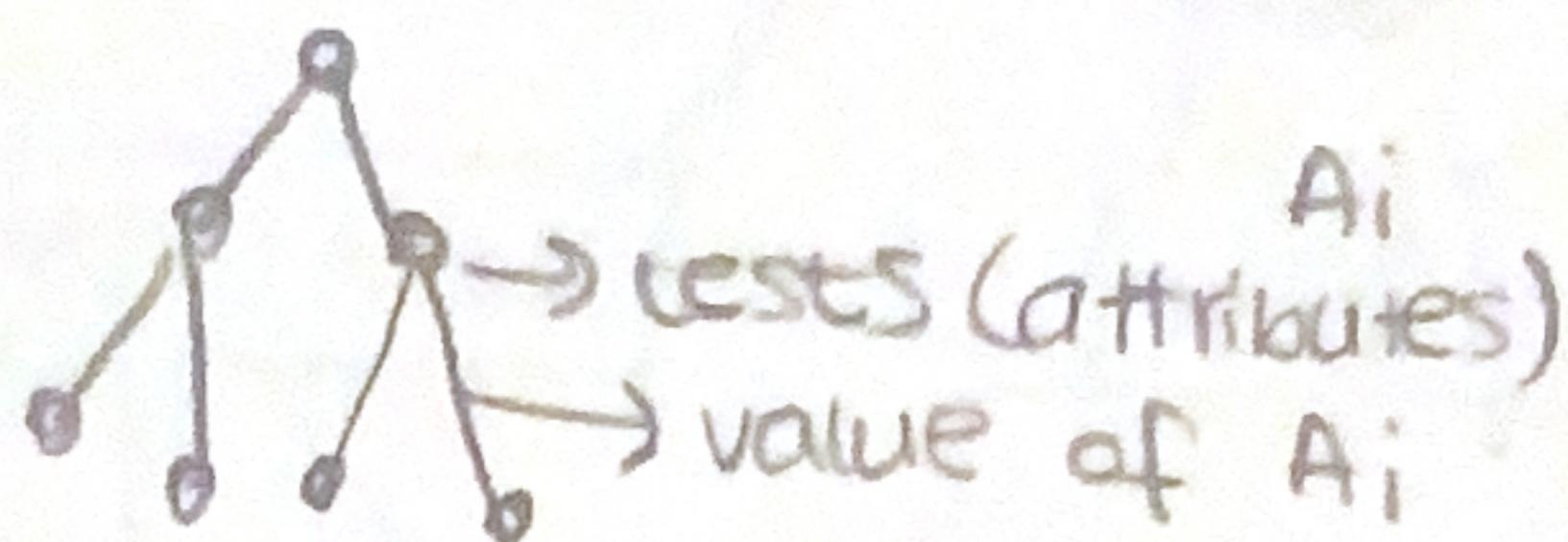
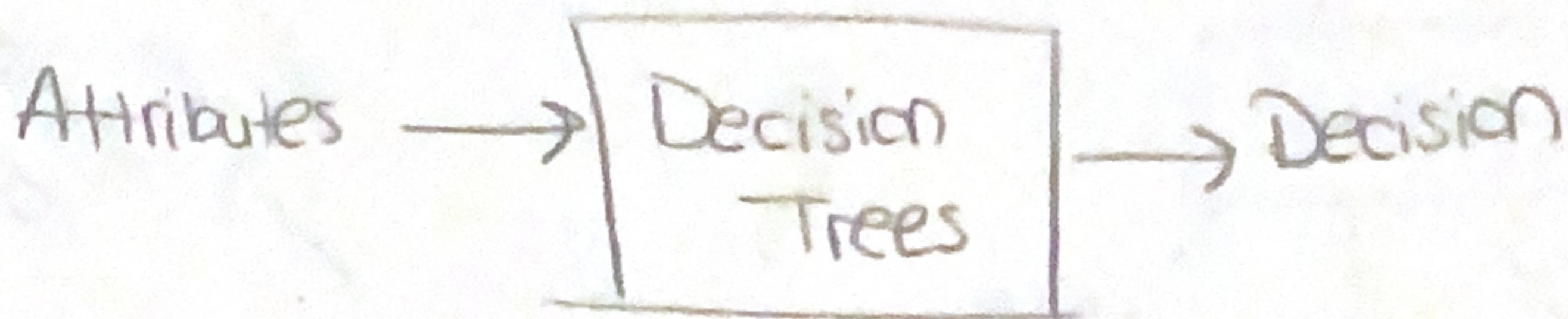
Decision Tree From Examples



Split Process



Decision Trees



exci Restaurant Wait

Goal Predicate → 'will wait'

Attributes → Price, Hungry, Fri/Sat, Alternative, Bar..

↓	↓	↓	↓	↓
price range	yes/no	true/false	alternative restaurant nearby	bar-area to wait (yes/no)
(\$, \$\$, \$\$\$)			(yes/no)	

Expressiveness

The goal is true if input attributes satisfy one of the paths leading to a leaf with value true.

exii Path = (Patrons = Full ∧ WaitEstimate = 0-10)
→ bir true leaf'ine
giden path'lerden

Goal ↔ (Path1 ∨ Path2...)

n tane attribute'la boolean function setinde

2^n fonksiyon var. n attribute'lu truth table'da

2^{2^n} farklı fonksiyon var. (intractable)