MACHINE LEARNING WORKSHOP

WEEK 2

01

ALGORITHMS

Algorithm

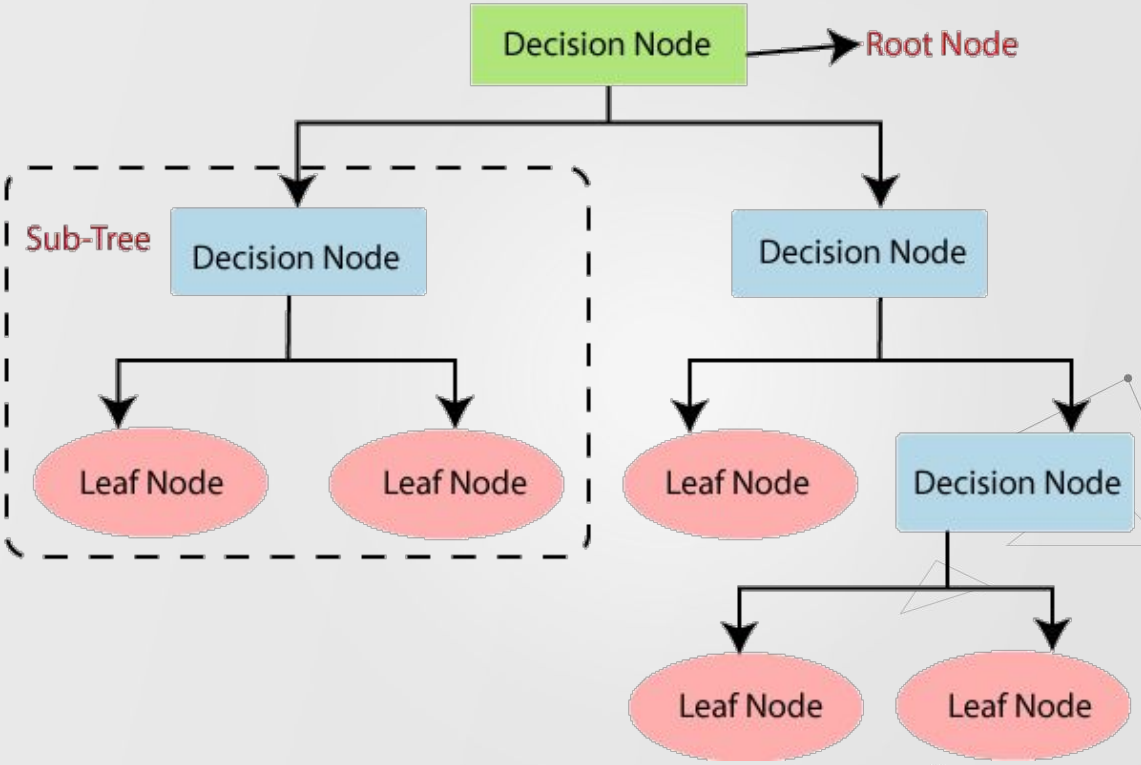
- Data goes in, follows a list of instructions, and a result comes out

- Ex: Recipe to bake a cake

02

DECISION TREES

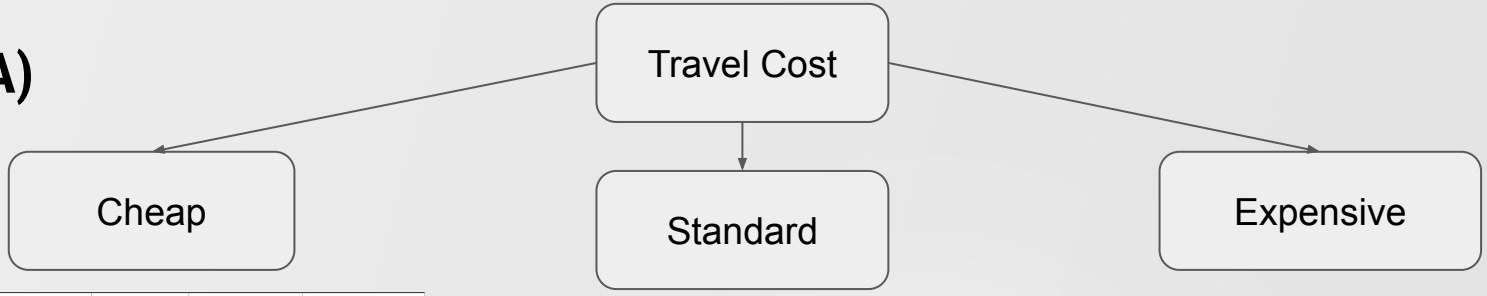
Decision Tree



Decision Trees Example
Am I out of shampoo?
Yes
No
Is it raining?
Do not go to the market
Yes
No
Do not go to the market
Go to the market

Attributes				Classes
Gender	Car Ownership	Travel Cost	Income Level	Transportation
Male	0	Cheap	Low	Bus
Male	1	Cheap	Medium	Bus
Female	1	Cheap	Medium	Train
Female	0	Cheap	Low	Bus
Male	1	Cheap	Medium	Bus
Male	0	Standard	Medium	Train
Female	1	Standard	Medium	Train
Female	1	Expensive	High	Car
Male	2	Expensive	Medium	Car
Female	2	Expensive	High	Car

A)

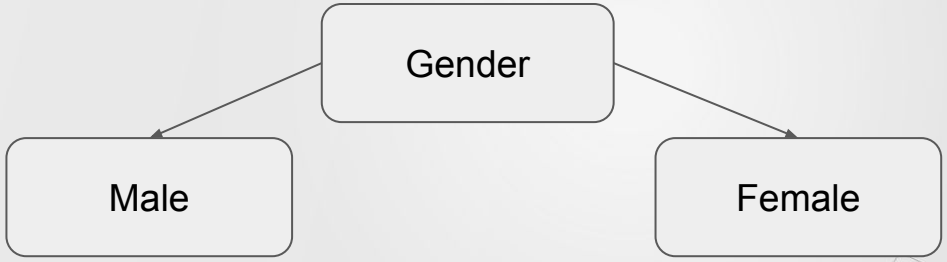


Male	0	Cheap	Low	Bus
Male	1	Cheap	Medium	Bus
Female	1	Cheap	Medium	Train
Female	0	Cheap	Low	Bus
Male	1	Cheap	Medium	Bus

Male	0	Standard	Medium	Train
Female	1	Standard	Medium	Train

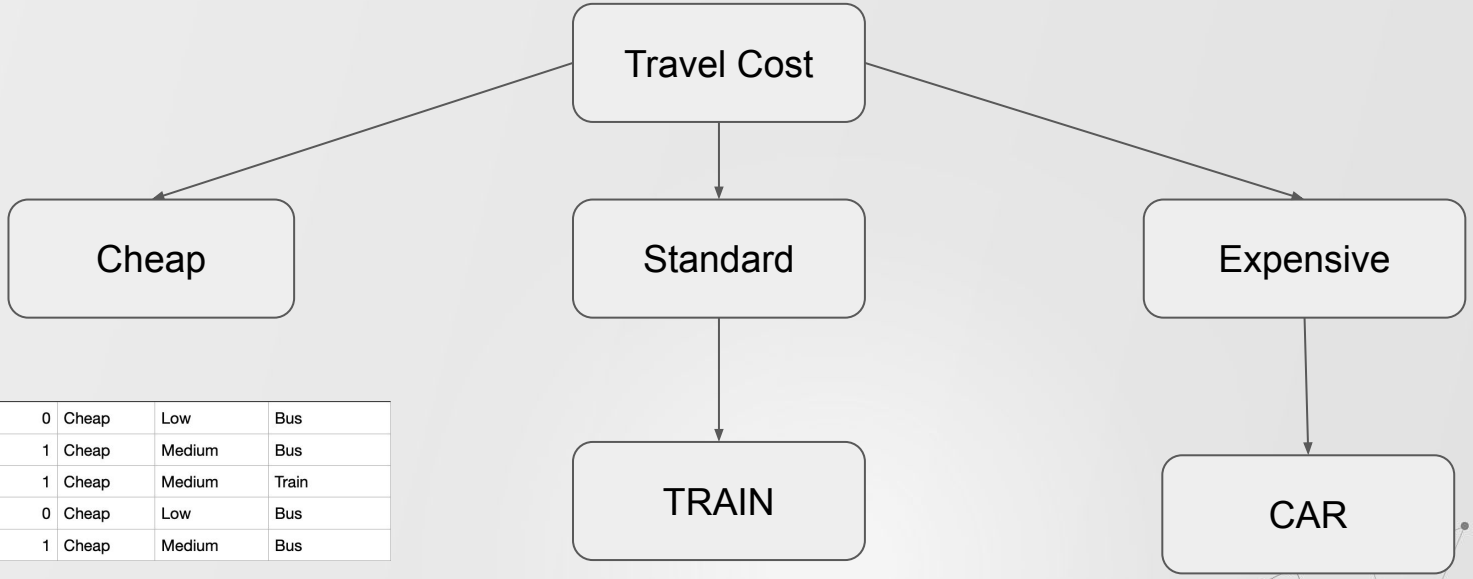
Female	1	Expensive	High	Car
Male	2	Expensive	Medium	Car
Female	2	Expensive	High	Car

B)

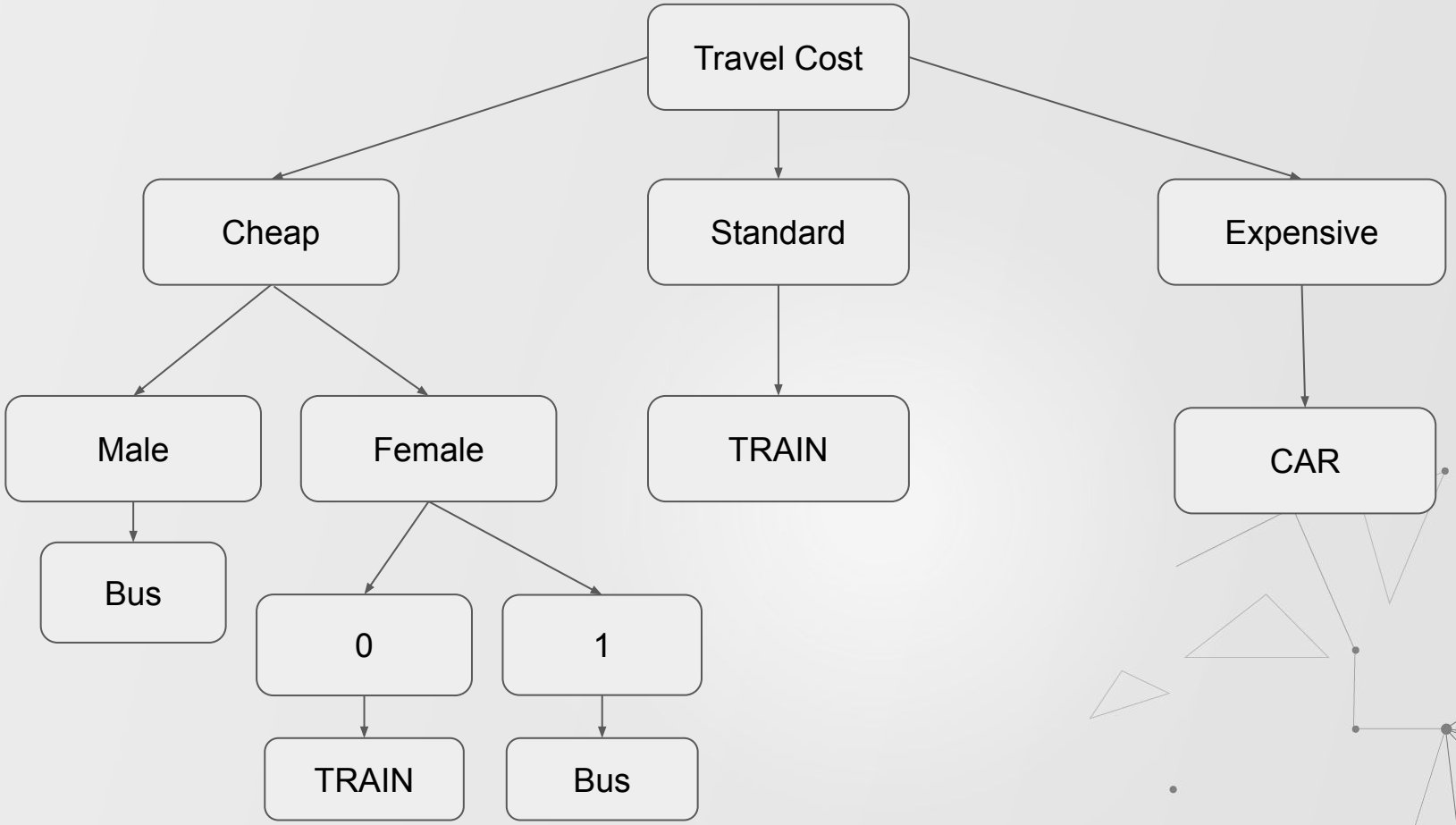


Male	0	Cheap	Low	Bus
Male	1	Cheap	Medium	Bus
Male	1	Cheap	Medium	Bus
Male	0	Standard	Medium	Train
Male	2	Expensive	Medium	Car

Female	2	Expensive	High	Car
Female	1	Cheap	Medium	Train
Female	0	Cheap	Low	Bus
Female	1	Standard	Medium	Train
Female	1	Expensive	High	Car



Male	0	Cheap	Low	Bus
Male	1	Cheap	Medium	Bus
Female	1	Cheap	Medium	Train
Female	0	Cheap	Low	Bus
Male	1	Cheap	Medium	Bus


Travel Cost
Cheap
Standard
Expensive
Male
Female
TRAIN
CAR
Bus
0
1
TRAIN
Bus

THANK YOU

smuppalla568@student.fuhsd.org

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