Decision trees is a very powerful tool and is used in most ML competitions.

Decision trees basically create a full picture model.

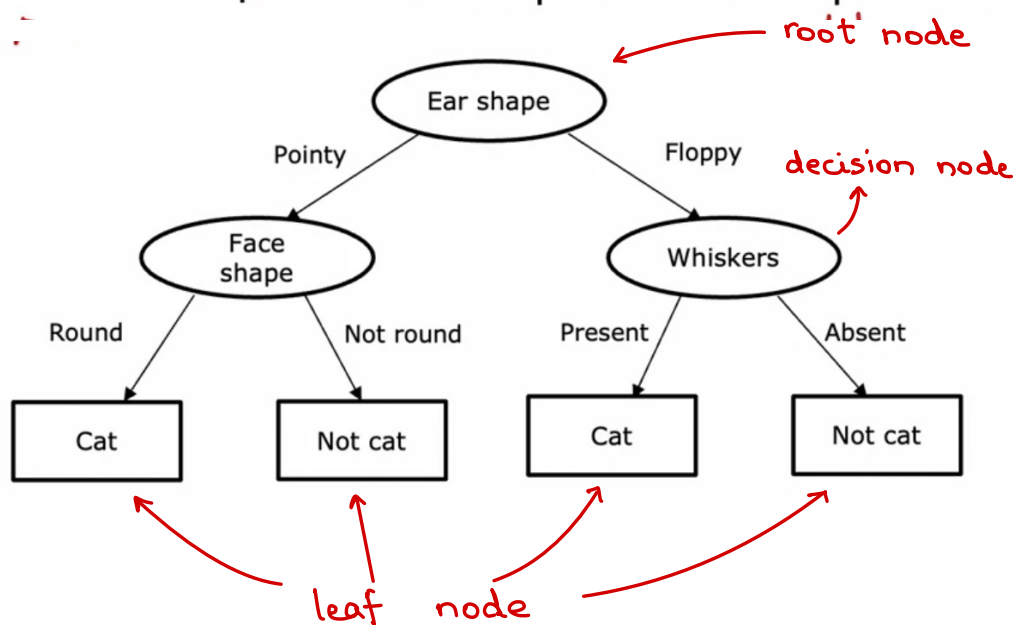|	Ear shape (x_1)	Face shape (x_2)	Whiskers (x_3)	Cat
	Pointy	Round	Present	1
	Floppy	Not round	Present	1
	Floppy	Round	Absent	0
	Pointy	Not round	Present	0
	Pointy	Round	Present	1
	Pointy	Round	Absent	1
	Floppy	Not round	Absent	0
	Pointy	Round	Absent	1
	Floppy	Round	Absent	0
	Floppy	Round	Absent	0

root node

decision node

leaf node

We convert the dataset of cat features into a decision tree model.

Basically, they are if-else conditions which keep on progressing towards the leaf node to decide if it's a cat or not.