

COMP 2231

Output Capture of Assignment 4 - Trees & Binary Search Trees

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QUESTION 1.1 : Decision Tree (BackPainAnalyzer)

TEST CASE 1 : LEFT SUBTREE LEFT CHILD

So, you're having back pain.
Did the pain occur after a blow or jolt?
N
Do you have a fever?
N
Do you have persistent morning stiffness?
,Y
You may have an inflammation of the joints.

TEST CASE 2 : LEFT SUBTREE RIGHT CHILD

N
Do you have a fever?
y
Do you have a sore throat or runny nose?
Y
You may have a respiratory infection.

TEST CASE 3 : LEFT SUBTREE LEFT CHILD

So, you're having back pain.

Did the pain occur after a blow or jolt?

y

Do you have difficulty controlling your arms or legs?

N

Do you have pain or numbness in one arm or leg?

N

You may have a sprain or strain.

TEST CASE 4 : LEFT SUBTREE RIGHT CHILD

So, you're having back pain.

Did the pain occur after a blow or jolt?

y

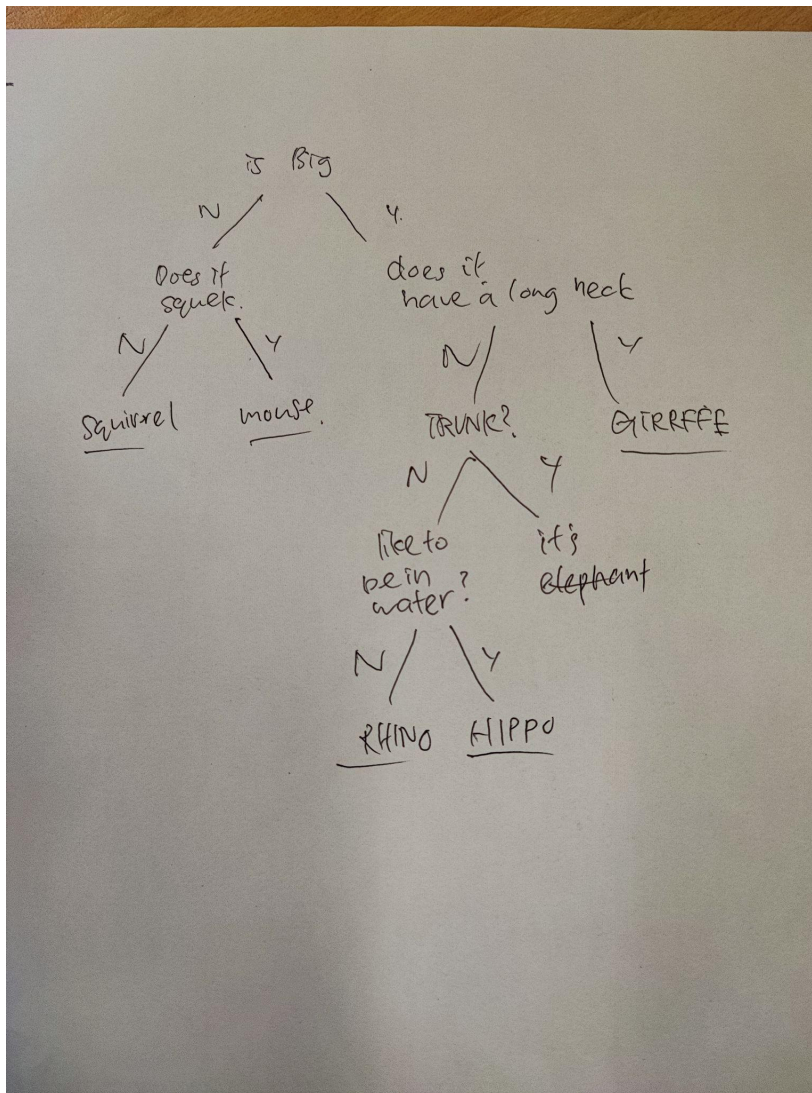
Do you have difficulty controlling your arms or legs?

y

Emergency! You may have damaged your spinal cord.

QUESTION 1.2 : Decision Tree (Modified: animal detection)

Created decision tree



TEST CASE 1:

So, you're detecting animals in the wild again

Is the animal big?

y

Does it have a long neck ?

n

Does it have a trunk?

n

Does it like to be in water?

y

The animal is hippo.

TEST CASE 2:

So, you're detecting animals in the wild again

Is the animal big?

n

Does it squeak ?

n

The animal is quirel.

TEST CASE 3:

So, you're detecting animals in the wild again

Is the animal big?

y

Does it have a long neck ?

n

Does it have a trunk?

y

The animal is elephant.