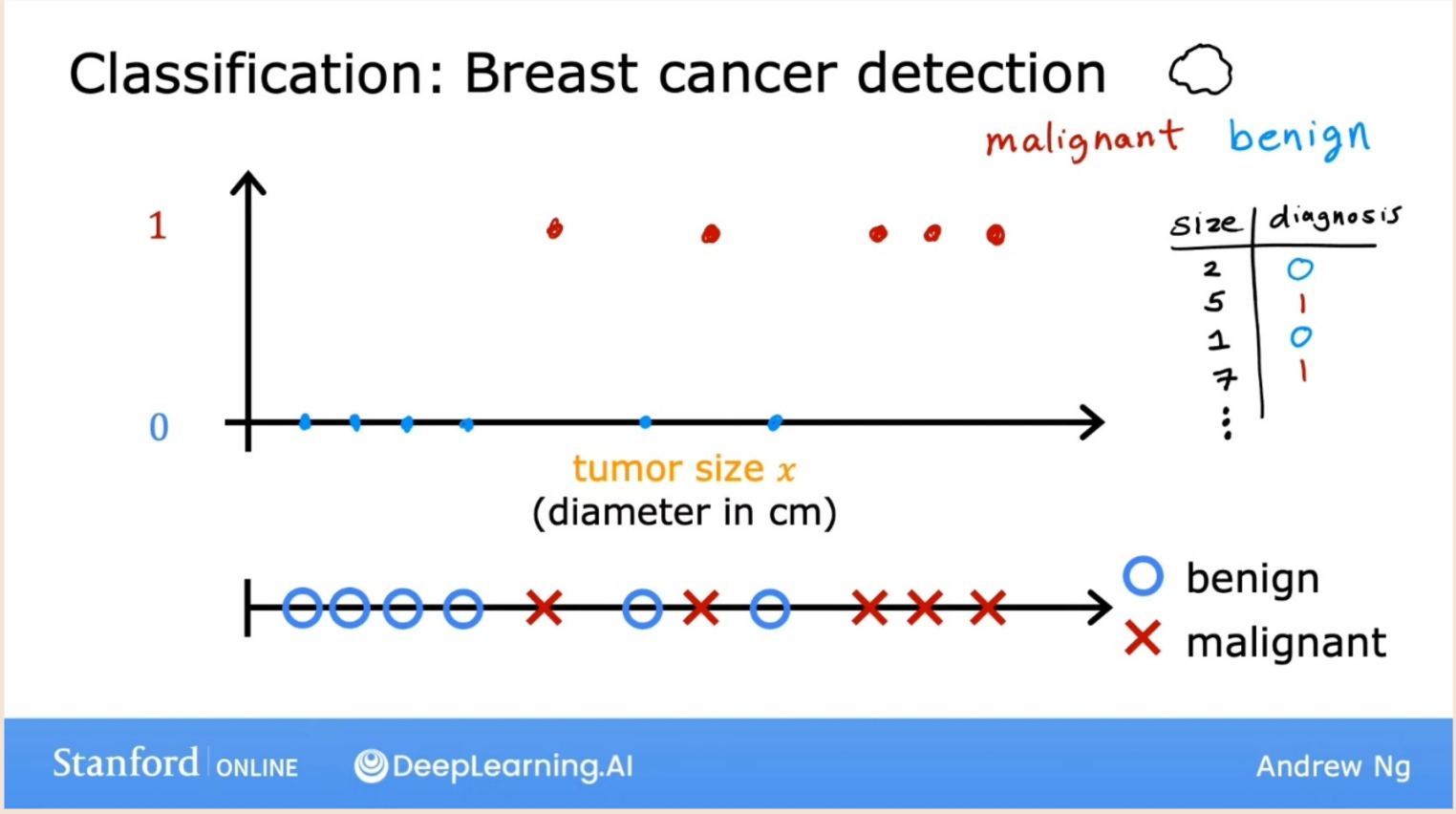
Classification Algorithm.

We have already learned about regression where the output could be anything: 0, 1 or 0.1, 0.5 etc.

→ In classification algorithm there is no in between result.

→ specific output e.g. 1, 2 or cat, dog.



In this example,

→ There is two output

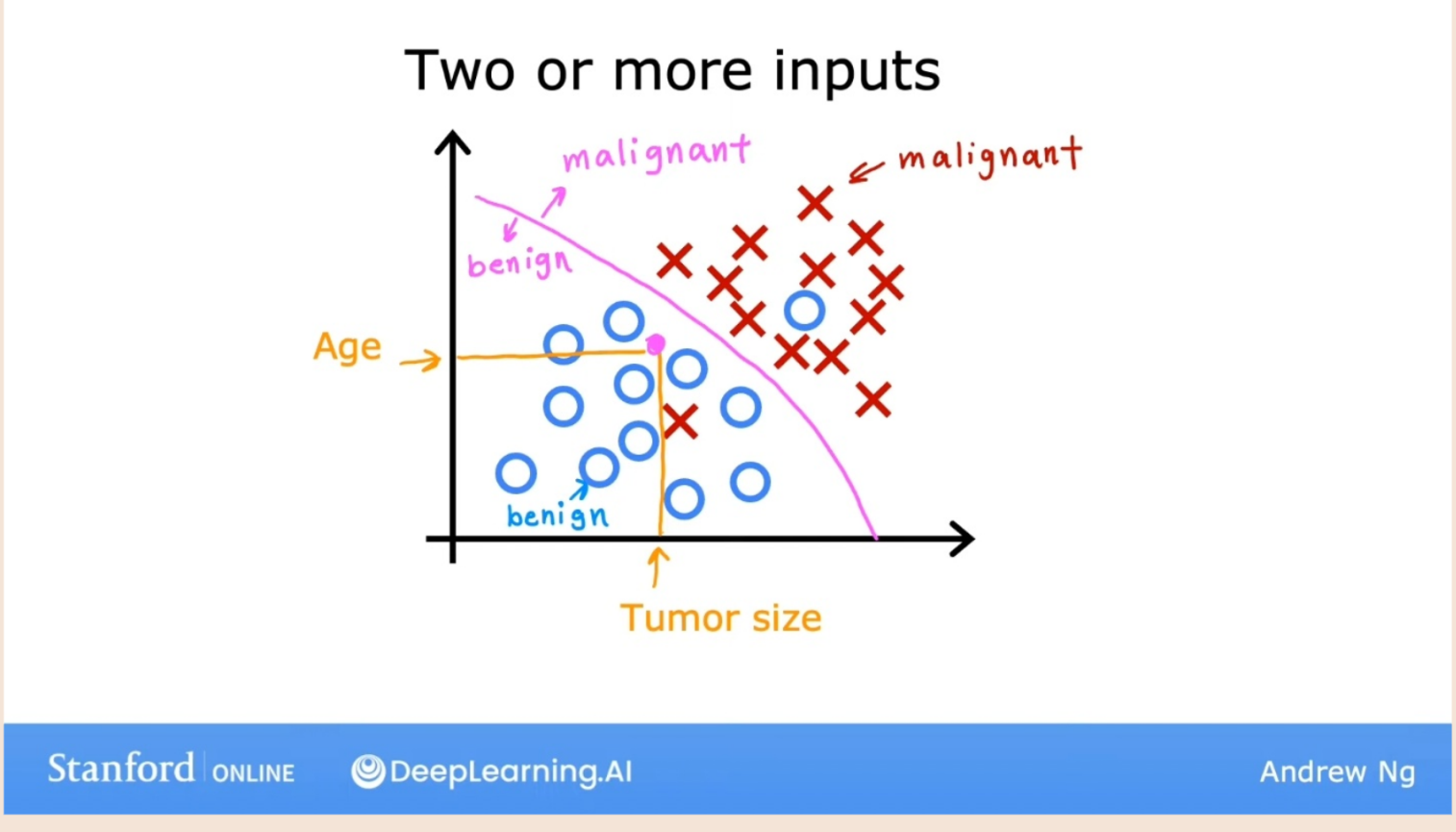
→ Malignant and benign.

→ The input is tumor size

So, Classification predict categories

→ From a picture it might predict the picture is a dog or a cat

→ The input and output can be more than 2



In summary:

Supervised learning

Supervised learning

Learns from being given "right answers"

Regression

Predict a number

infinitely many possible outputs

Classification

predict categories

small number of possible outputs