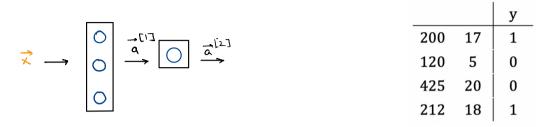
Tensorflow helps us avoid the manual forward propagation.



instead of manual forward prop, we use tensorflow

creating required layers

model = sequential ( $[layer_1, layer_2]$ )  $\leftarrow$  forms a neural network by

sequencially stringing the layers together

```
x = nb. away (EE 200, 17], [120, 5], [425, 20], [218, 18])

y = nb. away (E1, 0, 01]) \leftarrow output stored as a 1-D array
```

Predict values:-

In order to predict target value for a new x away (alled x - new), we call:-

model. predict (x\_new)

Originally, we don't explicitly assign the layers and then create the neural network.

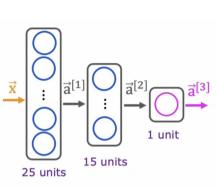
Conventionally,

model = Sequential [[

Dense (units = 3, activation = "sigmoid"),

Dense (units = 1, activation = "sigmoid")])

## Showcasing this for digit classification question



model. compile (...)x = np. away ([[0..., 245, ..., 17], [0..., 200, ..., 184])

model fit (x,y)

model, predict (x \_ new)