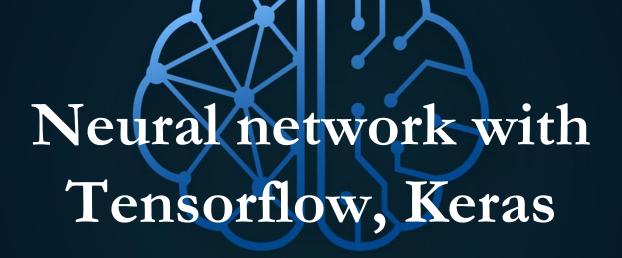
https://www.facebook.com/hcmut.ml.iot.lab



# MLOT

**HCMUT EE MACHINE LEARNING & IOT LAB** 





ICMUT EE Machine Learning & IoT Lab https://www.tacebook.com/ numumm.c

HCMUT EE Machine Learning & IoT Lab https://www.facebook.com/hcmur.ssl iot.lab A. Batch and epoch

HCMUT EE Machine Learning a neural and facebook.com/hcmut.ml.iot.lab

HCMUT HE Machine Learning & IoT Lab Interest Facebook.com/hcmut.ml.iot.lab

HCMUT EE Machine Learning & IoT Lab https://www.facebook.com/hcmut.ml.iot.lab

Tarabina Tearnino er ToT Lab https://www.facebook.com/hcmut.ml.iot.lab



Sample is a single row of data coA training dataset is comprised of many rows of data (many samples)

Batch size is a hyperparameter: number of

samples fed into model before updating the model parameters.

Batch size != number of https://www.facebook.com/

\*\*Notice of the model 1 batch is a set of samples

~22 X23iot.lab
wwXfacebook.com/hcmur 23

Tab https://wwXfacebook.com/hcmur 23

Tab https://wwwXfacebook.com/hcmur 23

Tab https://www.xfacebook.com/hcmur 23



1 Epoch is comprised of one or more batches. 1 epoch means that each sample in the training dataset had an opportunity to update the model 

number of epochs is a hyperparameter: The number times the algorithm will work through the entire training dataset.

HOMUTEE Machine Learning & IoT Lab https://www.facebook.com/hom/the model

X11

X<sub>11</sub><sub>k.cor</sub>Xhcmut.ml.iot.lab</sub>

X<sub>11</sub><sub>k.cor</sub>Xhcmut.ml.iot.lab</sub>

X<sub>11</sub><sub>k.cor</sub>Xhcmut.ml.iot.lab</sub>

X<sub>13</sub>

X<sub>13</sub>

X<sub>14</sub>

X<sub>15</sub>

X<sub>15</sub>

X<sub>15</sub>

X<sub>15</sub>

X<sub>16</sub>

X<sub>16</sub>

X<sub>17</sub>

X<sub>18</sub>

X<sub>18</sub>

X<sub>18</sub>

X<sub>18</sub>

X<sub>19</sub>

X<sub>19</sub>

X<sub>10</sub>

X<sub>10</sub> ~22 X23iot.lab
wwXfacebook.com/hcmur 23iot.lab
wwXfacebook.com/hcmur 23iot.lab





ICMUT EE Machine Learning & IoT Lab https://www.tacebook.com/ numumm.c HCMUT EE Machine Learning & IoT Lab https://www.facebook.com/hcmut.ml iot.lab

B. Tehrtps://www.facebook.com/hcmut.ml.iot.lab

HCMUT EE Machine Learning & International Learni

HCMUT EE Machine Learning & IoT Lab https://www.facebook.com/hcmut.ml.iot.lab

HCMUT EE Machine Learning & IoT Lab https://www.facebook.com/hcmut.ml.iot.lab

The Termina or Tot Lab https://www.facebook.com/hcmut.ml.iot.lab



## Frameworks

Machine Learning & IoT Lab https://www.facebook.com/nemun.mine Tab https://www.facebook.com/hcmut.ml.iot.lab

ICMI

Caffe (UC Berkeley)

Torch (NYU / Facebook)

Theano (U Montreal)

TensorFlow (Google)

(Baidu)

(Facebook) by PyTorch

Caffe2

**PyTorch** (Facebook) PaddlePaddle

**MXNet** (Amazon)

al.iot.lab

(Preferred Networks)

CNTK (Microsoft)

JAX (Google)

And others...

HCMUT EE Ma-

The Line Tearning & IoT Lab https://www



