

ISE CERTIFICATION COURSE DETAILS

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COURSE NAME:	Deep learning with keras and tensorflow in python and R	DATE:	21/05/2020

31. Python - Dataset for classification problem

LINK <https://keras.io/datasets/fashion-mnist-dataset-of-fashion-articles>

Dataset of 60,000 28x28 grayscale images of 10 fashion categories, along with a test set of 10,000 images. The class labels are:

Label	Description
0	T-shirt/top
1	Trouser
2	Pullover
3	Dress
4	Coat
5	Sandal
6	Shirt
7	Sneaker
8	Bag
9	Ankle boot

Class images: Ankle boot, Pullover, Trouser, Shirt, Coat, Sandal, Sneaker, Dress, Bag, T-shirt/top

BRIEF REPORT: (POINT-WISE)

- 1). Python dataset for classification problem that is how the datasets are classified and datasets is splitted into testing and training dataset. Python -Normalization of test-train splits and R-normalization of test train set
- 2). Python-Building and training the model under this different way to create ANN using keras and building them and then compiling and training the neuralnetwork model. Checks model performance and predictin using keras.
- 3). In next section Python regression problem and functinal API which includes building neural network for regression problem using functional API's for complex architecture