Assignment-I.md 12/29/2022

Build a neural network using Tensorflow - Keras

- Build a neural network using Tensorflow Keras
 - Tasks
 - Create Model
 - Network

Tasks

- 1. Size of inputs vectors:756
- 2. Size of output vectors: 10
- 3. 3 fully connected hidden layers: 1st hidden layer with 16 neurons, 2nd hidden layer with 32 neurons, 3rd hidden layer with 64 neurons
- 4. Activation functions of the neurons of the output layer: softmax
- 5. Activation functions of the neurons of three hidden layers: three different kinds of non-linear functions

Create Model

Model Summary:

ayer (type)	Output Shape	Param #
input_layer (Flatten)	(None, 756)	0
nidden_layer_i (Dense)	(None, 16)	12112
nidden_layer_ii (Dense)	(None, 32)	544
nidden_layer_iii (Dense)	(None, 64)	2112
output_layer (Dense)	(None, 10)	650

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Total params: 15,418 Trainable params: 15,418 Non-trainable params: 0

Network

