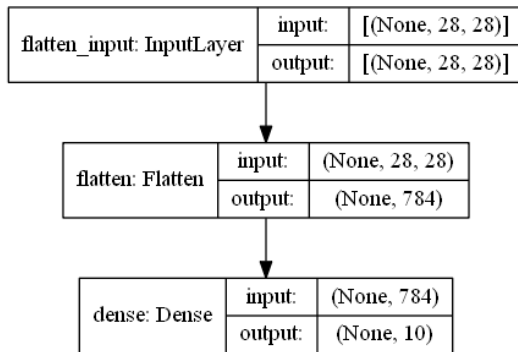


Neural Networks Homework 4

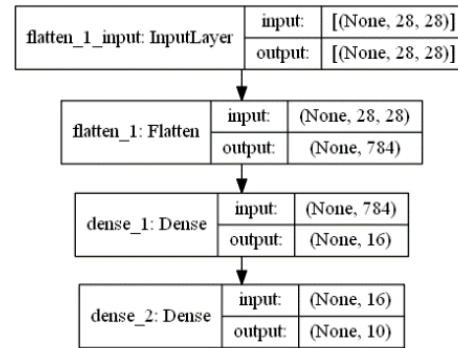
In this homework, you will implement your very first Tensorflow models using Sequential and Functional APIs (see *SequentialVsFunctional.ipynb* as an example). There will be 4 experiments:

Sequential 1: Model with no hidden layer



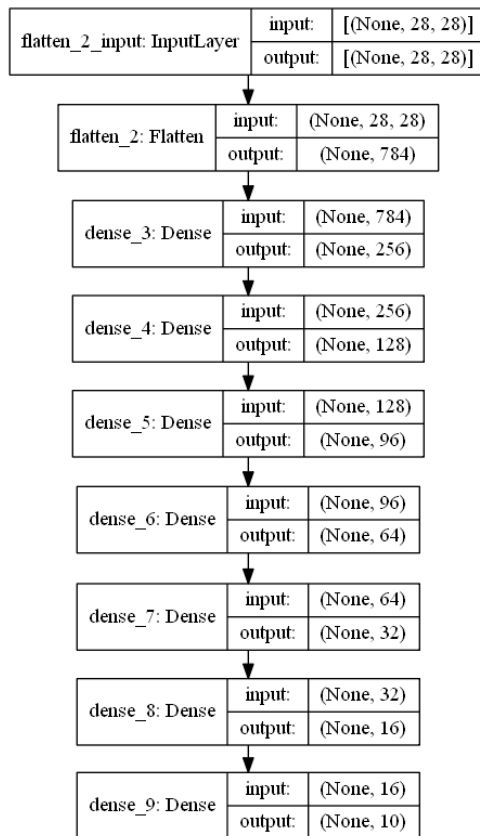
Train for 10 epochs (output is softmax)

Sequential 2: Model with single hidden layer



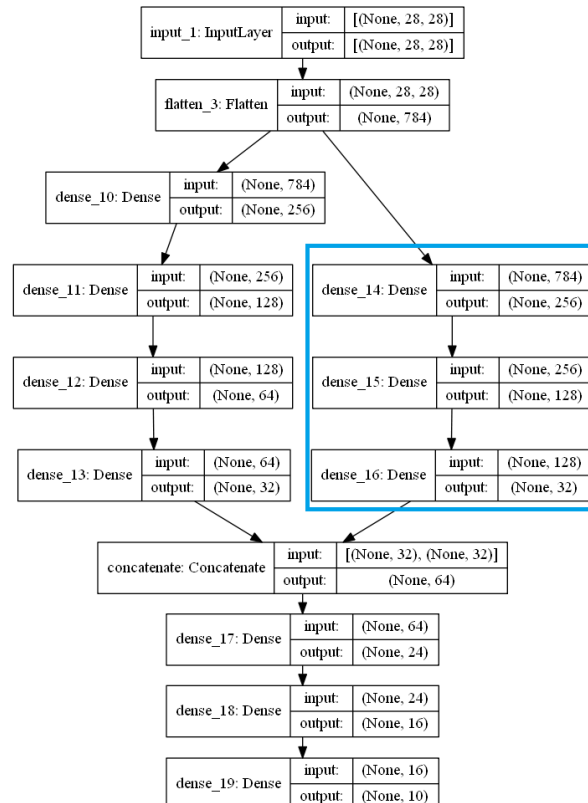
Use sigmoid in hidden layer, train for 20 epochs

Sequential 3: Deep model



Use ReLU in hidden layer, train for 20 epochs

Functional: Complex deep model



Use sigmoid for layers within the blue box and use ReLU in the remaining hidden layers, train for 25 epochs

Submit your solution as a *Jupyter Notebook* file through Aybuzem.