Assignment 4: TENSORFLOW – KERAS

Submit file PDF: assign4_lớp.nhóm_tênho.pdf

For example: assign4_02clc.03_quetd.pdf

assign4_02cq.03_quetd.pdf

- Submit before **MONDAY (08/09) 11:30PM for both CQ & CLC classes**
  //same as asignment3

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4.1. Extend Assignment 1 (1.7)

a. Build a dataset with 1000 persons and 4 features (jobs, age, height, weight) and store in C:\DATA\data_4.1.csv
b. Show the distribution of the dataset
c. Using 5 basic ML models and using BMI to classifying and predicting overweight, underweight, normal with respect to age and job
d. Build models CNN, RNN, LSTM with 5 layers for classification and prediction problem in c
e. Compare and evaluate models given in c. and d. with metrics accuracy, MAE, MSE, RMSE
f. Visualize with >=5 various types
g. Deploy the best model so that user enters: job, age, height, weight and output is underweight, overweight or normal and give a guide for health.

Note:

- Code b,c,d,e,f,g must be put and run in ONE CELL
- In order to make a health-guide in Question d, student must build a knowledge base from web (for simple using JSON) and store in C:\DATA\kb_healthGuide.json