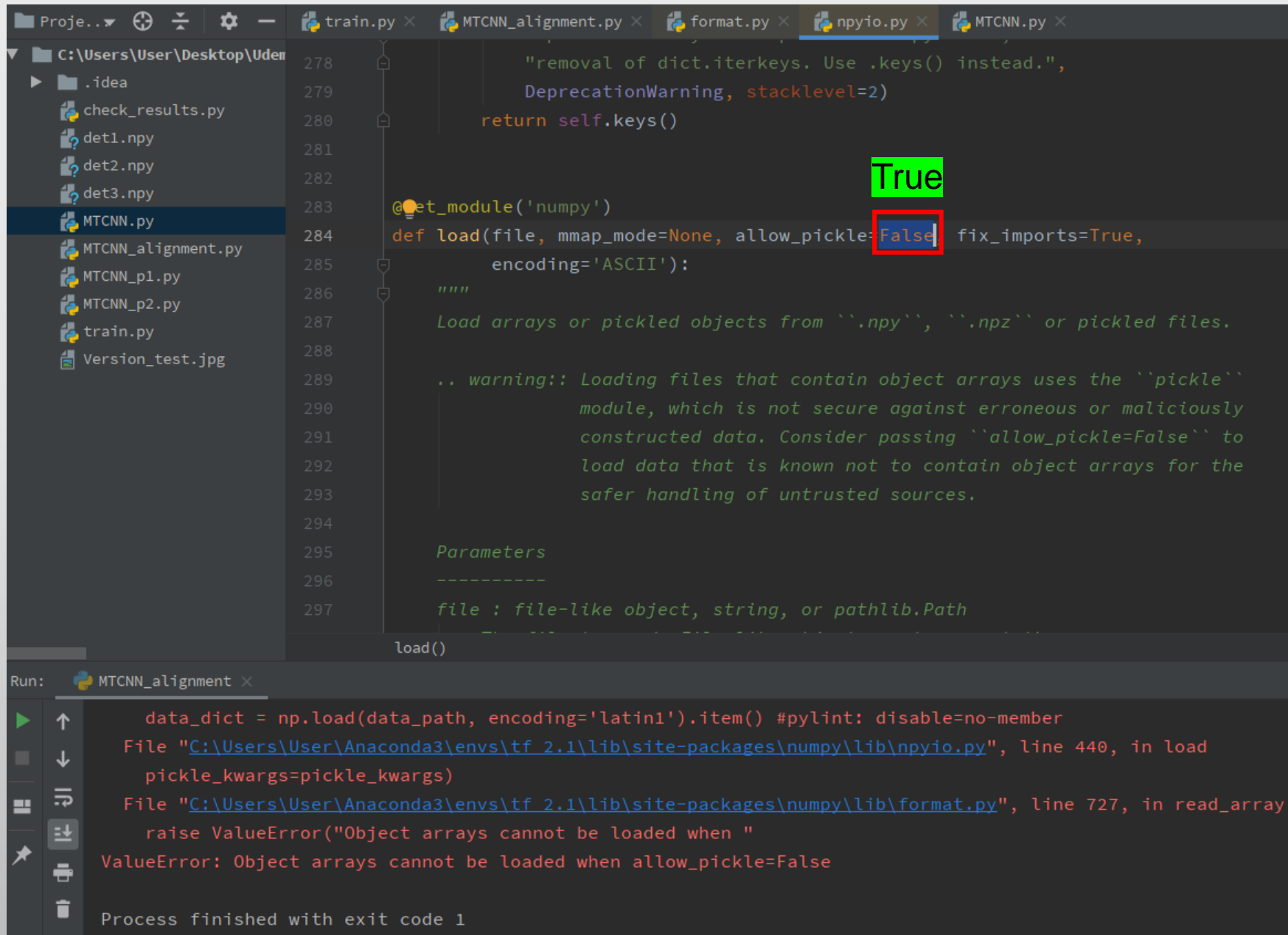# MTCNN notes

JohnnyAI

Notes

- In previous chapter, I taught you how to use SSD face detection. In this tutorial, I will teach you how to use MTCNN which is normally used to detect faces.

- You can set a flag to detect one face of each image in order to avoid the problem of detecting multiple faces by SSD method.

- My test hardware equipment:

  - CPU: Intel I7-8700

  - RAM: 32GB

  - GPU: GTX1080Ti,

  - Storage: Adata SX8200 pro 1TB(PCIE 3.0 x 4 SSD)

- Ave process time of each image by MTCNN: around 35 ms while it's around 10 ms by SSD method

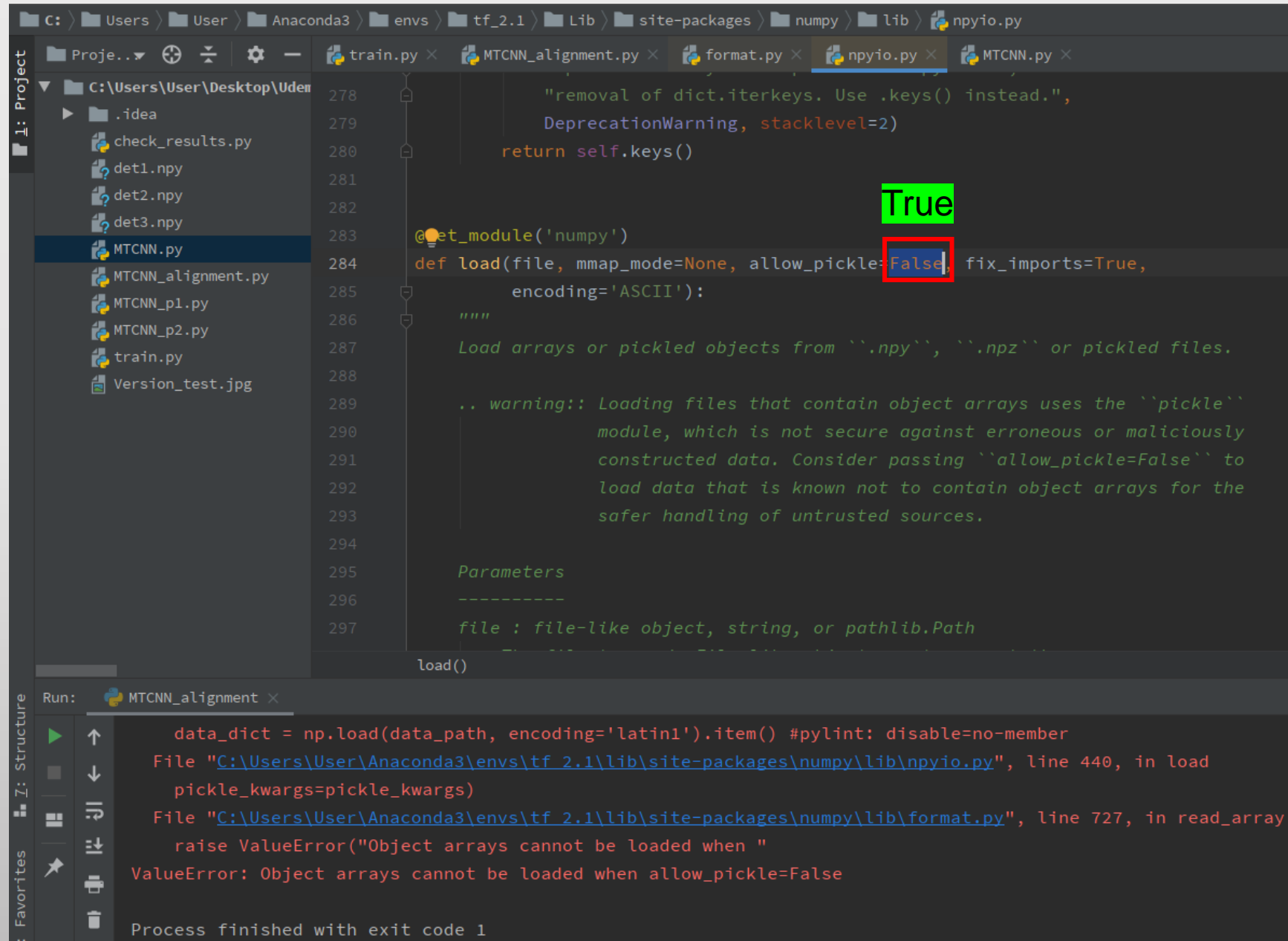# ValueError: Object arrays cannot be loaded when allow_pickle=False

ValueError: Object arrays cannot be loaded when allow_pickle=False

Tested OK environments

	Python	Tensorflow-gpu	Opencv	Matplotlib	Numpy
1	3.7.9	2.1	3.4.2	3.3.2	1.19.2
2	3.6.9	1.13.1	3.4.2	3.1.1	1.16.6