

Fraunhofer Task Manual(Cats and Dogs Classifier)

1. Instructions.

- a. Install all requirements from requirements.txt
- b. Run main.py file.
- c. File upload url: <http://127.0.0.1:5000/>
- d. Accepted data types: jpg, jpeg, png, zip
- e. Upload one zip file inside multiple image files or upload multiple image files.

2. Uploaded folder structure.

- a. Root path: ./static
- b. Zip file will be stored and unzipped inside path: ***“./static/Uploads”***
- c. All images will be automatically divided into three folders
 - i. Training dataset of CAT. path: ***“./static/TRAIN/cats”***
 - ii. Training dataset of DOG. path: ***“./static/TRAIN/dogs”***
 - iii. Test dataset. path: ***“./static/TEST”***
- d. 25% of each categories total data will be saved into TEST and 75% will be saved into train dataset.
- e. Trained model will be save to ***“./static/model.h5”***
- f. Trained model weights will be saved to ***“./static/model_weights.h5”***

Local Disk (D:) > Personal > Fraunhofer > FraunhoferTask > static				
	Name	Date modified	Type	Size
1.	TEST	6/26/2022 12:45 PM	File folder	
2.	TRAIN	6/26/2022 12:45 PM	File folder	
3.	UPLOADS	6/26/2022 12:49 PM	File folder	
4.	model.h5	6/26/2022 12:49 PM	H5 File	111,319 KB
5.	model_weights.h5	6/26/2022 12:49 PM	H5 File	37,114 KB

Image 1: Inside static folder structure

3. Error:

If any error occurred like: `ImportError: Could not import PIL.Image. The use of `load_img` requires PIL.` Run this command: `pip install --upgrade tensorflow keras numpy pandas sklearn pillow`

ImportError

`ImportError: Could not import PIL.Image. The use of `load_img` requires PIL.`

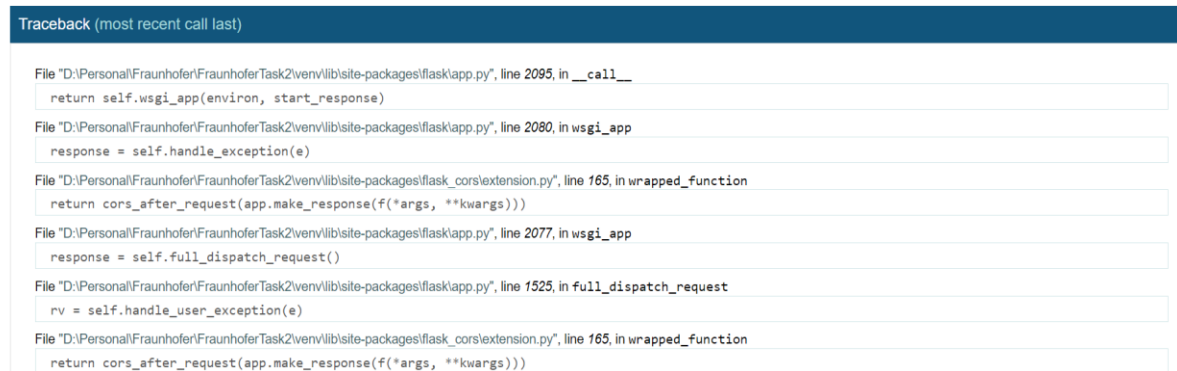


Image 2: import PIL error screenshot

4. Success Message:

Select files: No file chosen

SUCCESS!

Files successfully uploaded and training also done!!

RESULT:

Epochs: 5
Steps: 20
Loss: [0.7797352075576782, 0.7017422318458557, 0.6759081482887268, 0.6462695002555847, 0.604662299156189]
Accuracy: [0.5, 0.4937500059604645, 0.606249988079071, 0.6089743375778198, 0.65625]

Image 3: Success message screenshot

5. Error Message:

Select files: No file chosen

Danger!

data.rar File type is not allowed

Image 4: Validation error message screenshot