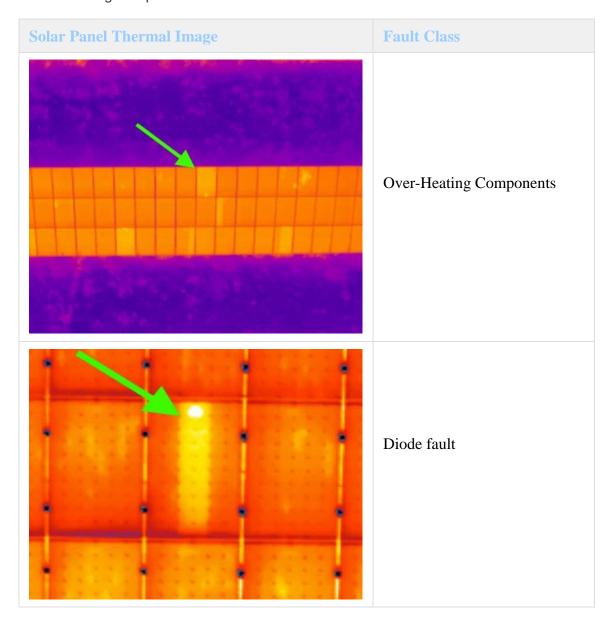
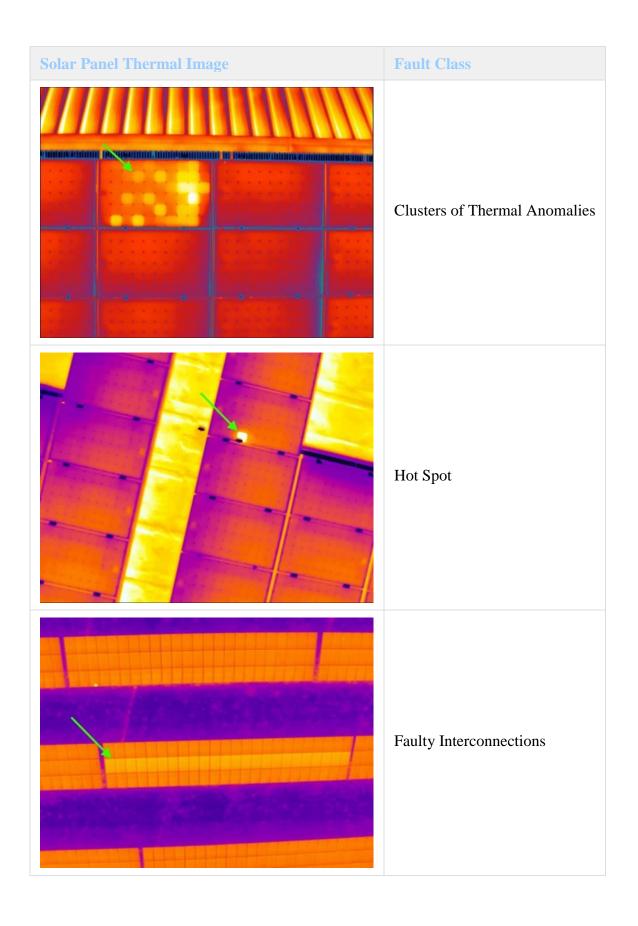
We have built a Convolutional neural network that was trained on images of faulty and normal explained on previous page, same way this Multi-class Classification model is trained on 5 classes of fault such as

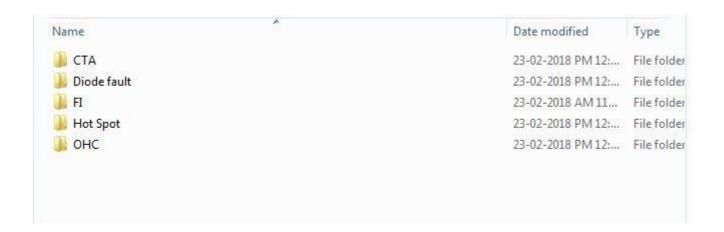
- 1. Clusters of Thermal Anomalies
- 2. Diode fault
- 3. Faulty Interconnections
- 4. Hot Spot
- 5. Over-Heating Components





Preparing Dataset

Prepare two folders named "test_set" and "training_set" into your working directory, it may take a while as there are nearly 500 images in both folders, which is the training data as well as the test dataset. Make sure to create a new directory and name it "dataset" and paste the above downloaded dataset folders into it.



First, the folder "training_set" contains five sub folders with name same as Fault names, each holding same number of images of the respective category. Second, the folder "test_set" contains five sub folders with name same as Fault names, each holding same number of images of respective category.