```
dataset = DatasetHandler.load_dataset(path_to_segments_file)
     [images, score, images_val, score_val] = dataset.get_imgs_with_labels(...)
    input_shape = dataset.get_input_shape()
    model_base = ResNet50(weights='imagenet', include_top=False, input_shape=input_shape)
    training_features = model_base.predict(images)
    validation_features = model_base.predict(images_val)
10
    # here it's possible to split the computation
11
    # save the training_features, validation_features
13
    # and load them repeatedly after
14
    model_top = build_simple_top_model( input_shape=training_features.shape[1:] )
15
16
    model_top.compile(...)
17
    history = model_top.fit (training_features, score, ...
18
         validation_data=(validation_features, score_val))
19
```

1 def img_model_with_feature_cooking():