```
from tensorflow.keras.utils import load_img
from tensorflow.keras.utils import img_to_array
from keras.applications.vgg16 import preprocess_input
from keras.applications.vgg16 import decode_predictions
from keras.applications.vgg16 import VGG16
```

## **Pre-Trained Model as Classifier**

## Pre-Trained Model as Feature Extractor in PreProcessor

## Pre-trained Model as Feature Extractor in Model

```
print("INFO loading network....")
model_vgg = VGG16(weights="imagenet", include_top=False, input_shape=train_x.shape[1:])
model_vgg.summary()
```

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