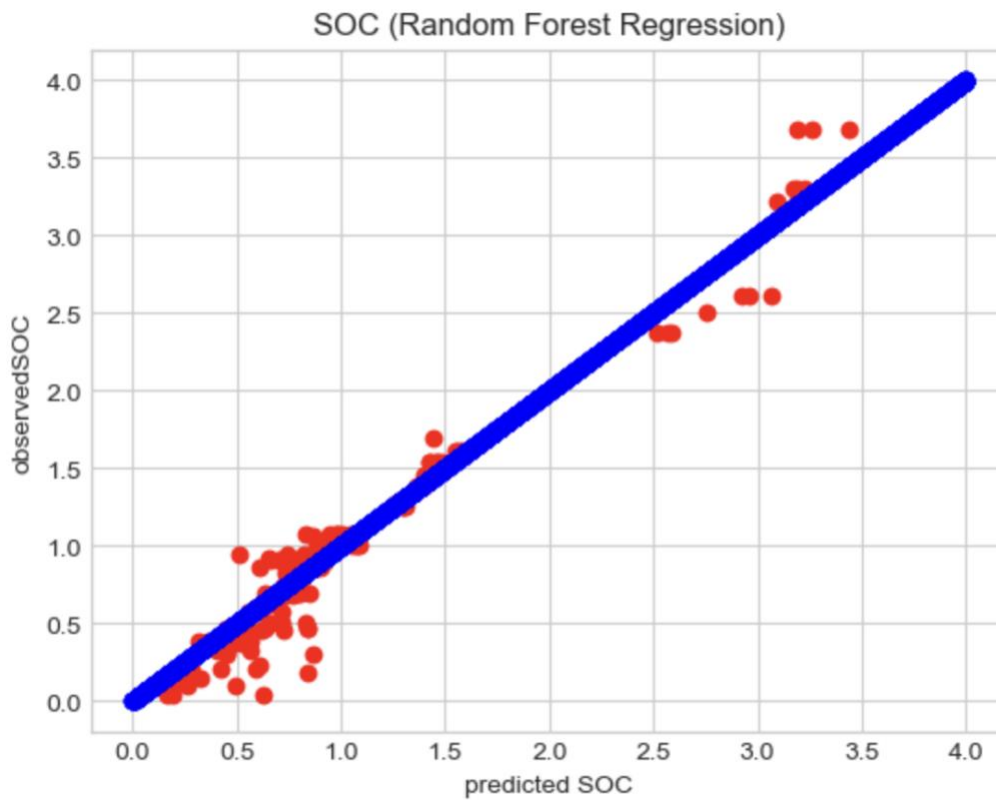


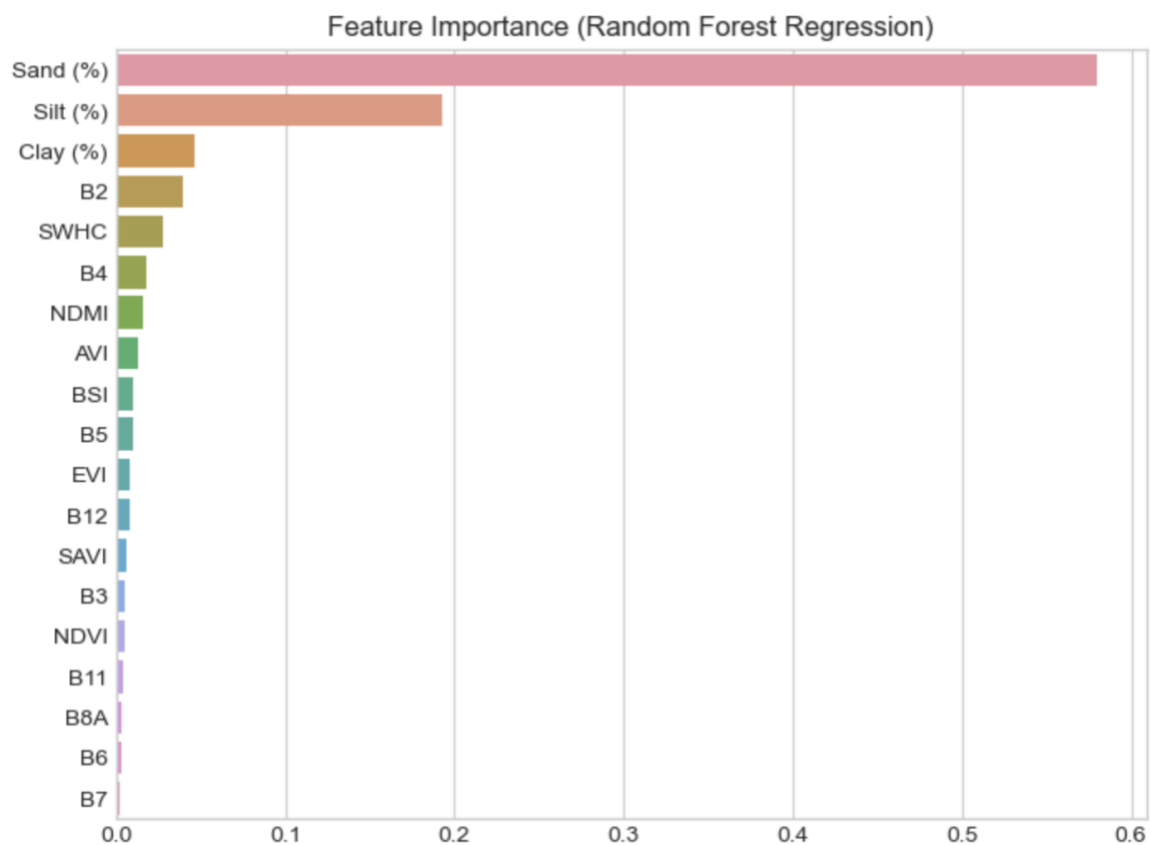
1. RF 20m – S2A, SWHC, ST



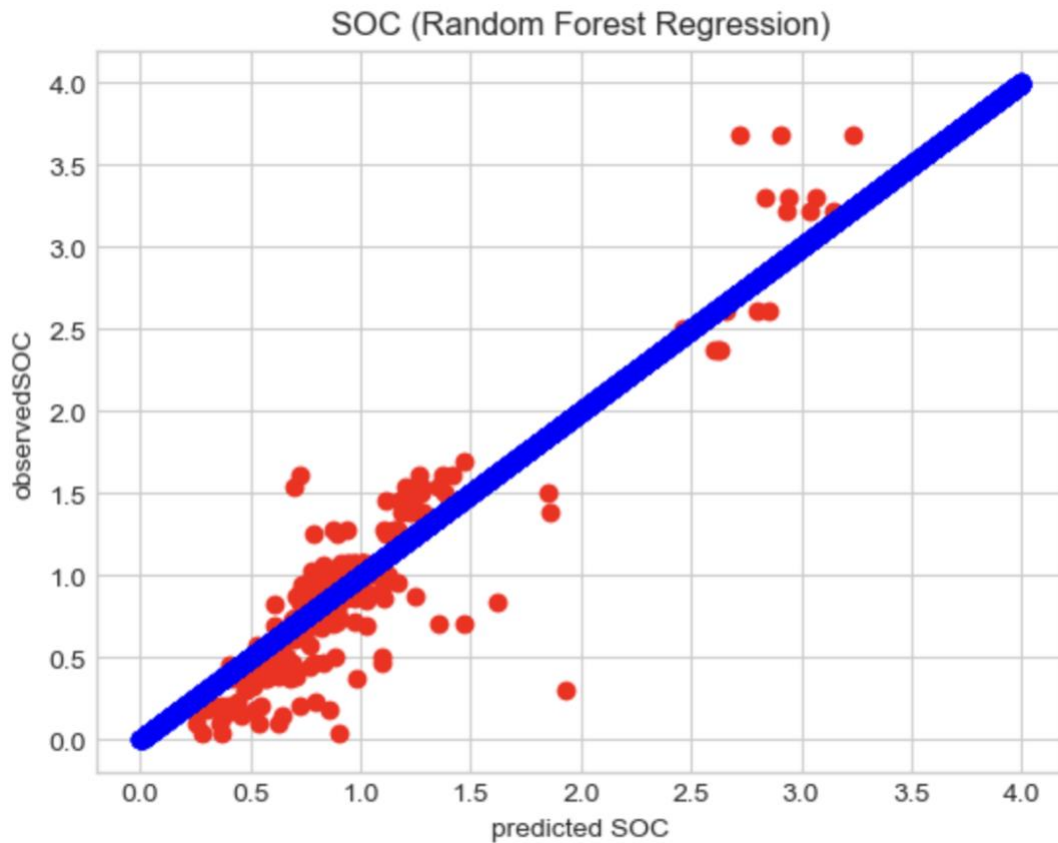
```
In [16]: #####모델 검증  
# R-squared  
  
print(model.score(x_train, y_train)) #  
  
print(model.score(x_test, y_test)) #  
  
0.9840598360435518  
0.8792249798724048
```

```
In [17]: # R-squared  
  
model.score(x.values,y.values)
```

```
Out[17]: 0.9555695460570376
```



## 2. RF 20m – S2A



```
In [52]: #####모델 검증
# R-squared

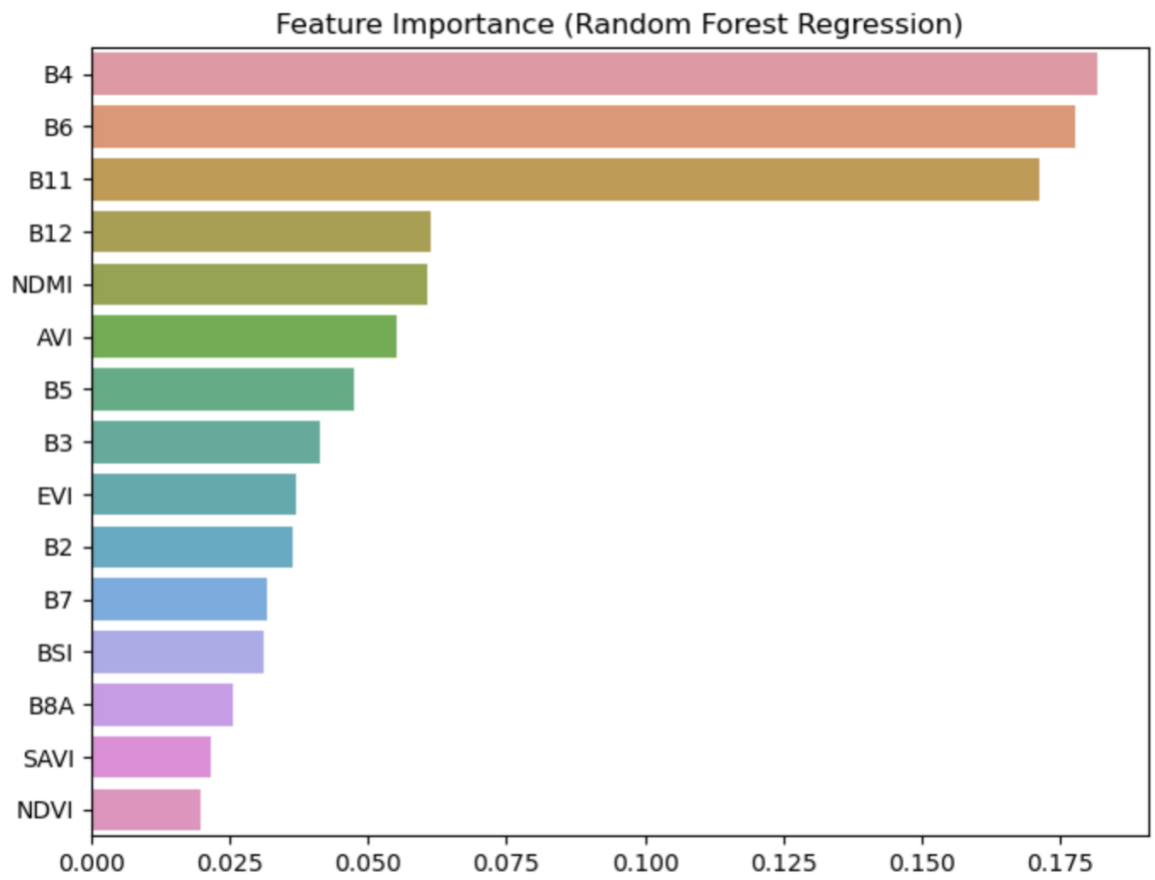
print(model.score(x_train, y_train)) #
print(model.score(x_test, y_test)) #

0.9242057852726683
0.6057669014964413
```

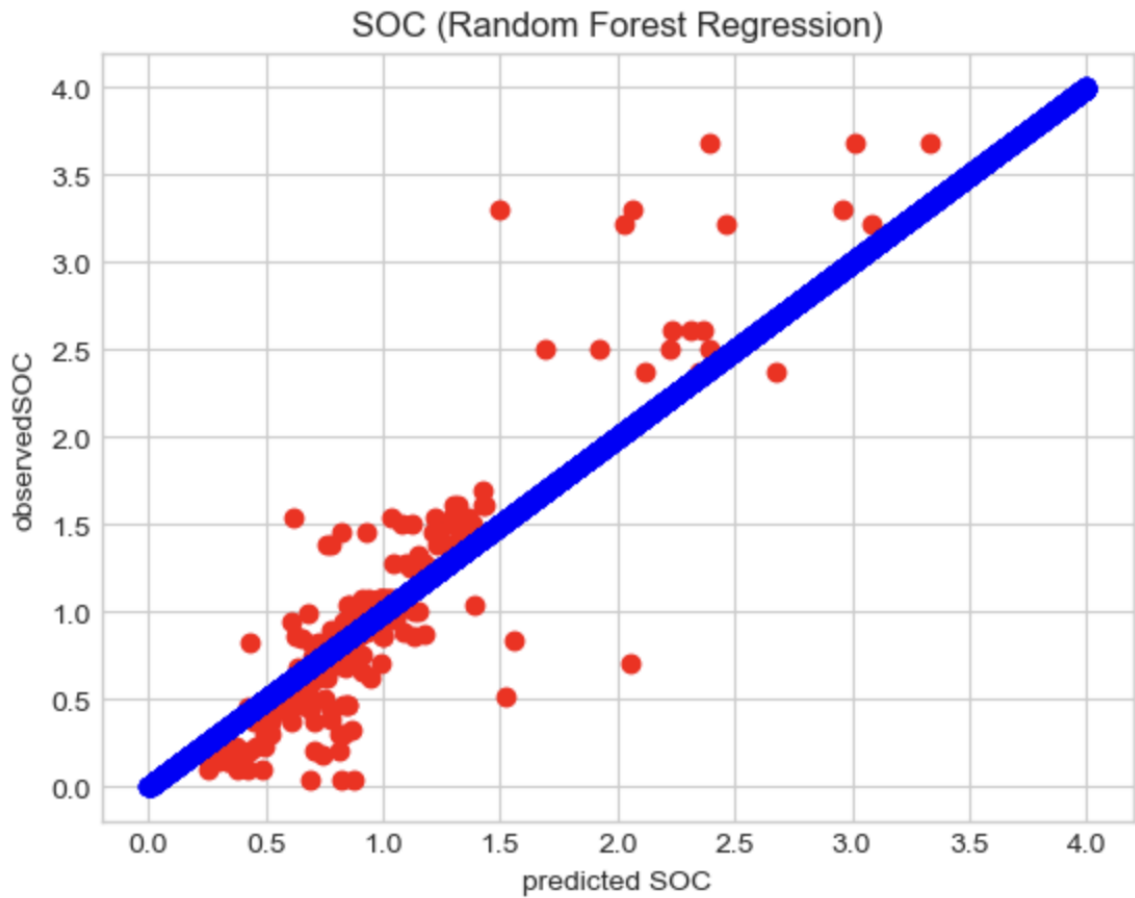
```
In [53]: # R-squared

model.score(x.values, y.values)
```

```
Out[53]: 0.8376773911089964
```



### 3. RF 10m – S2A



```
In [17]: #####모델 검증
# R-squared

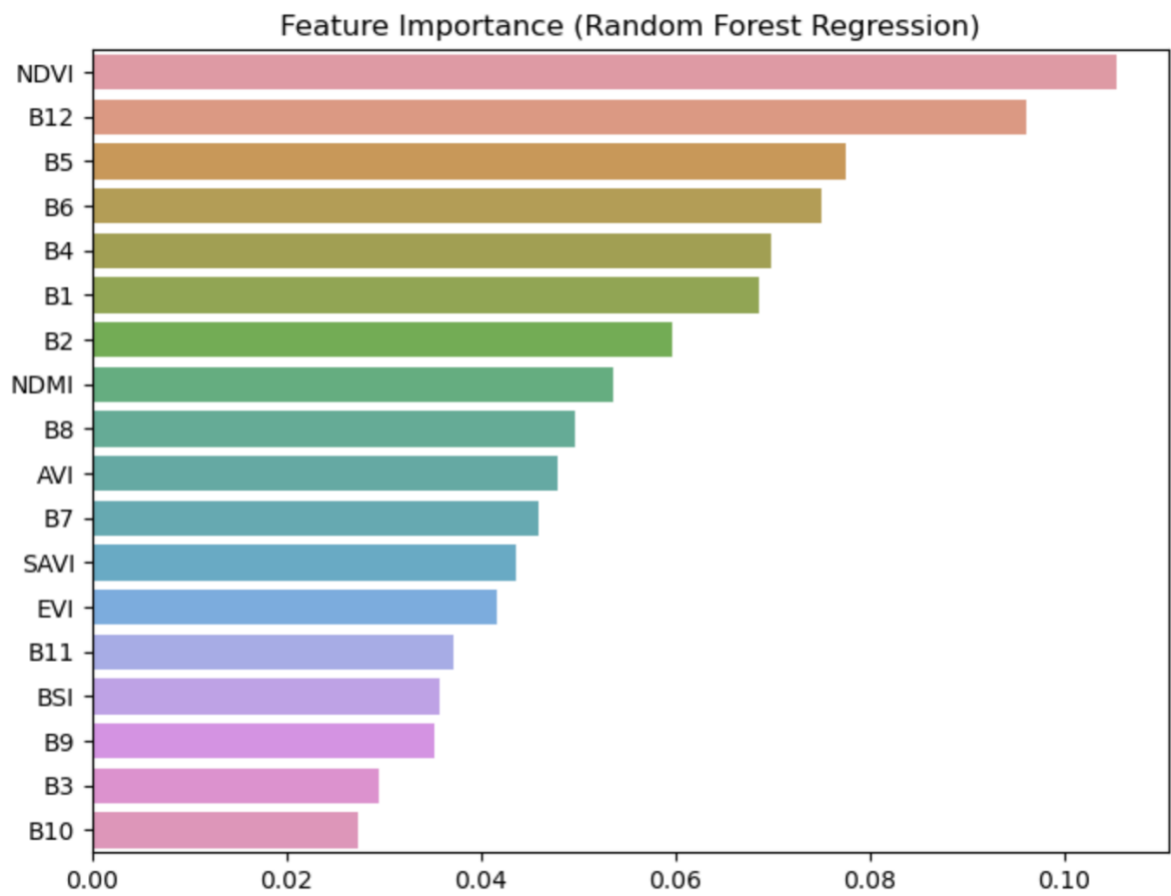
print(model.score(x_train, y_train)) #
print(model.score(x_test, y_test)) #

0.9170525397681053
0.5685443701601358
```

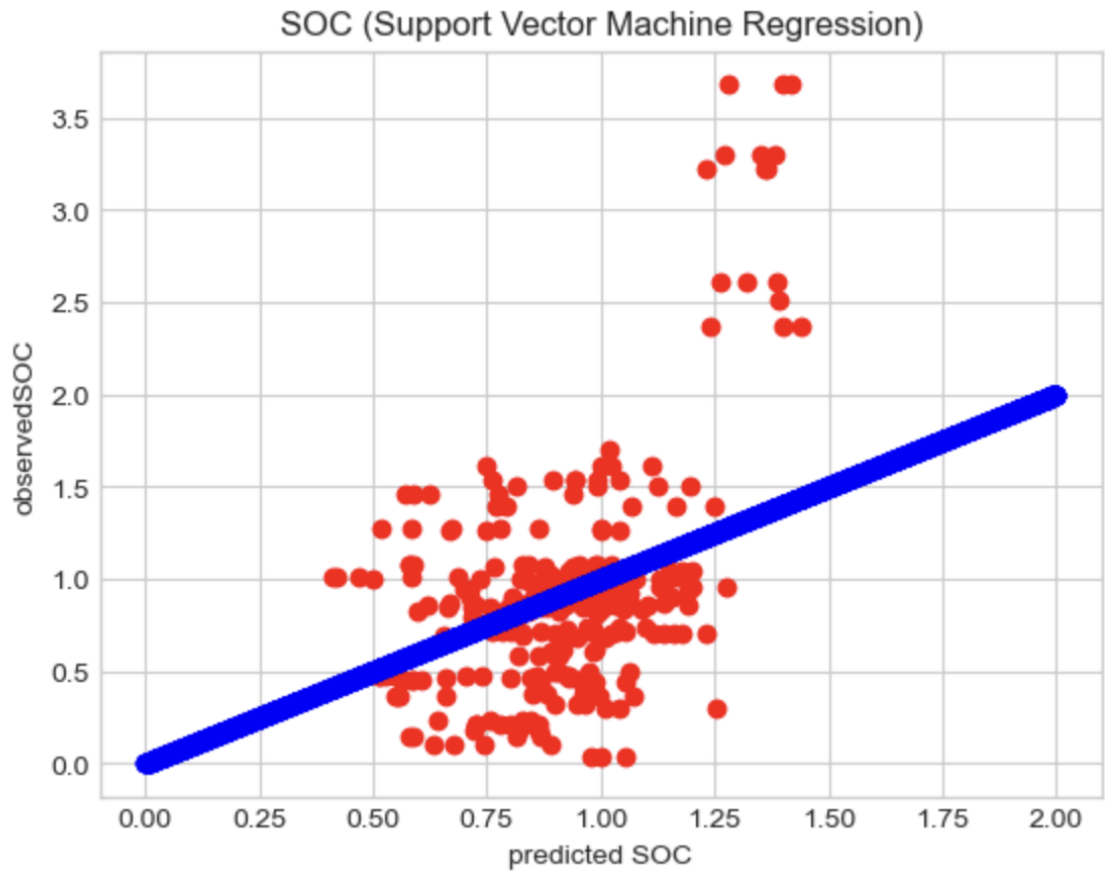
```
In [18]: # R-squared

model.score(x.values, y.values)
```

```
Out[18]: 0.7914683627769743
```



#### 4. SVM 20m – S2A



```
In [28]: #####모델 검증

print(model.score(x_train, y_train)) #

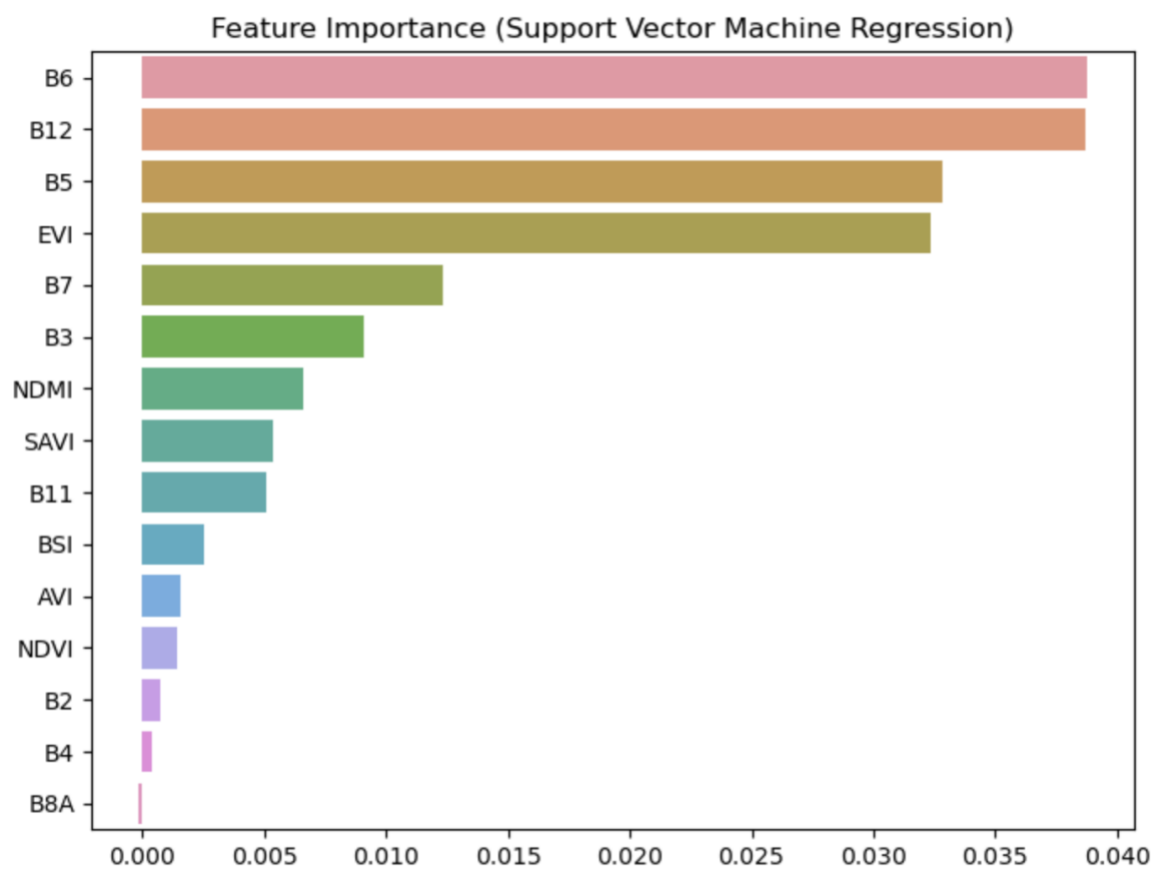
print(model.score(x_test, y_test)) #

0.21828143851075743
0.21173982749234543
```

```
In [29]: # R-squared

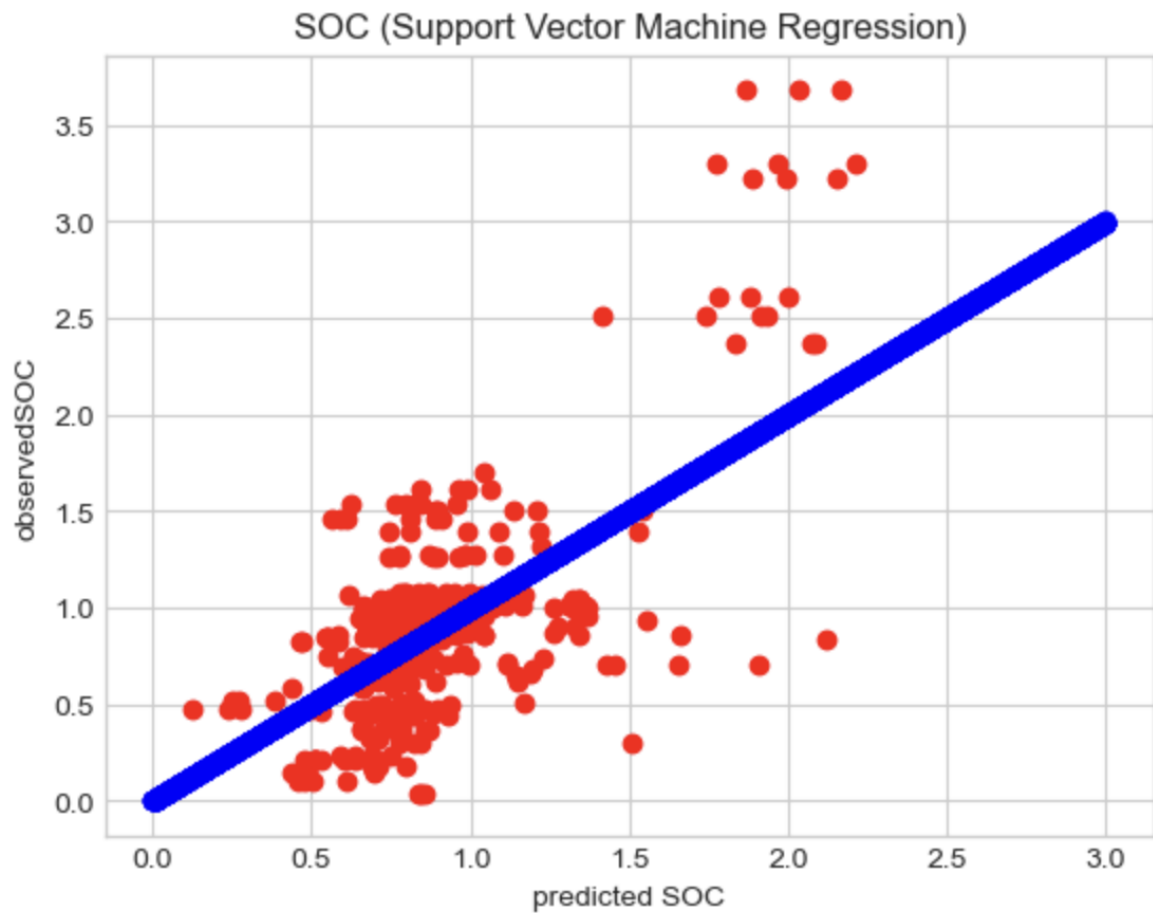
model.score(x.values, y.values)
```

```
Out[29]: 0.2181592290334443
```





5. SVM 10m – S2A



```
In [21]: #####모델 검증

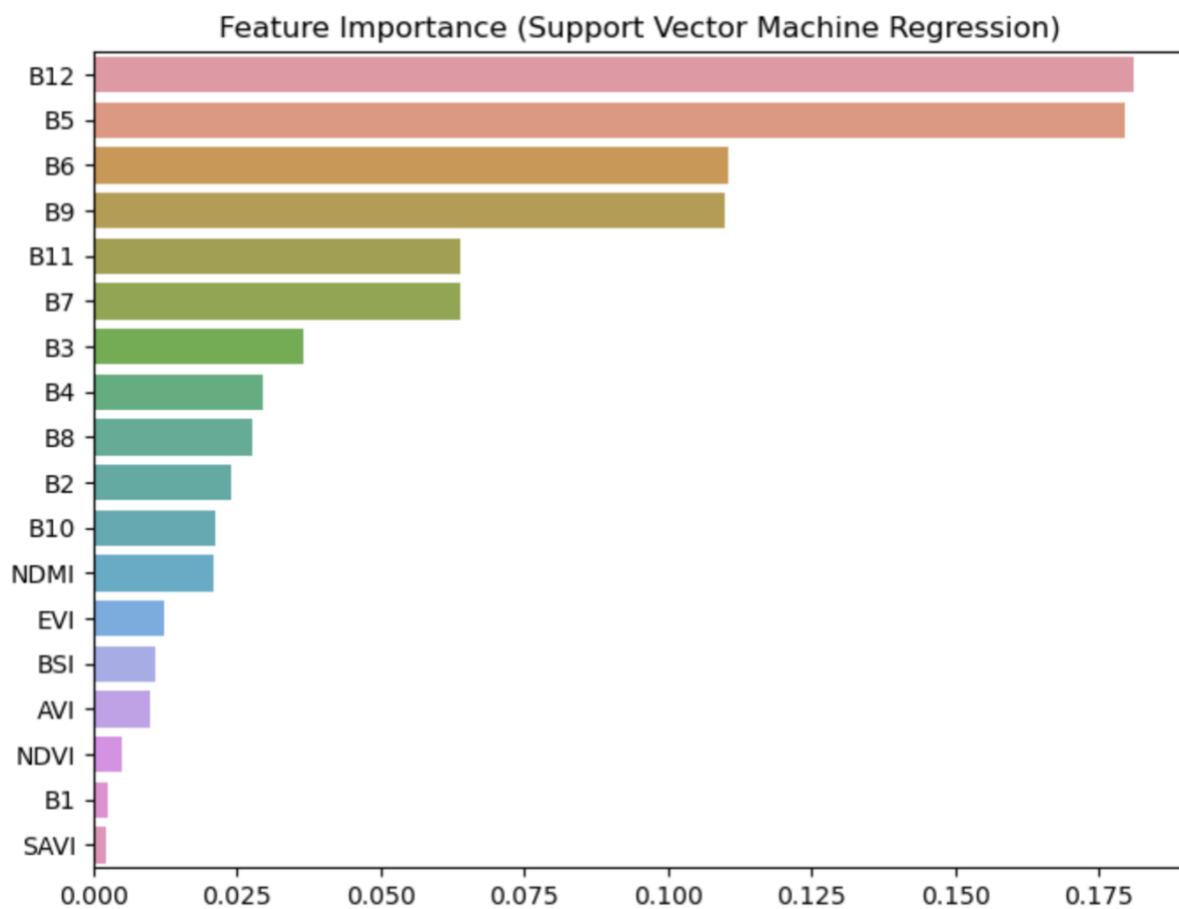
print(model.score(x_train, y_train)) #
print(model.score(x_test, y_test)) #

0.5012814508773755
0.477561219778905
```

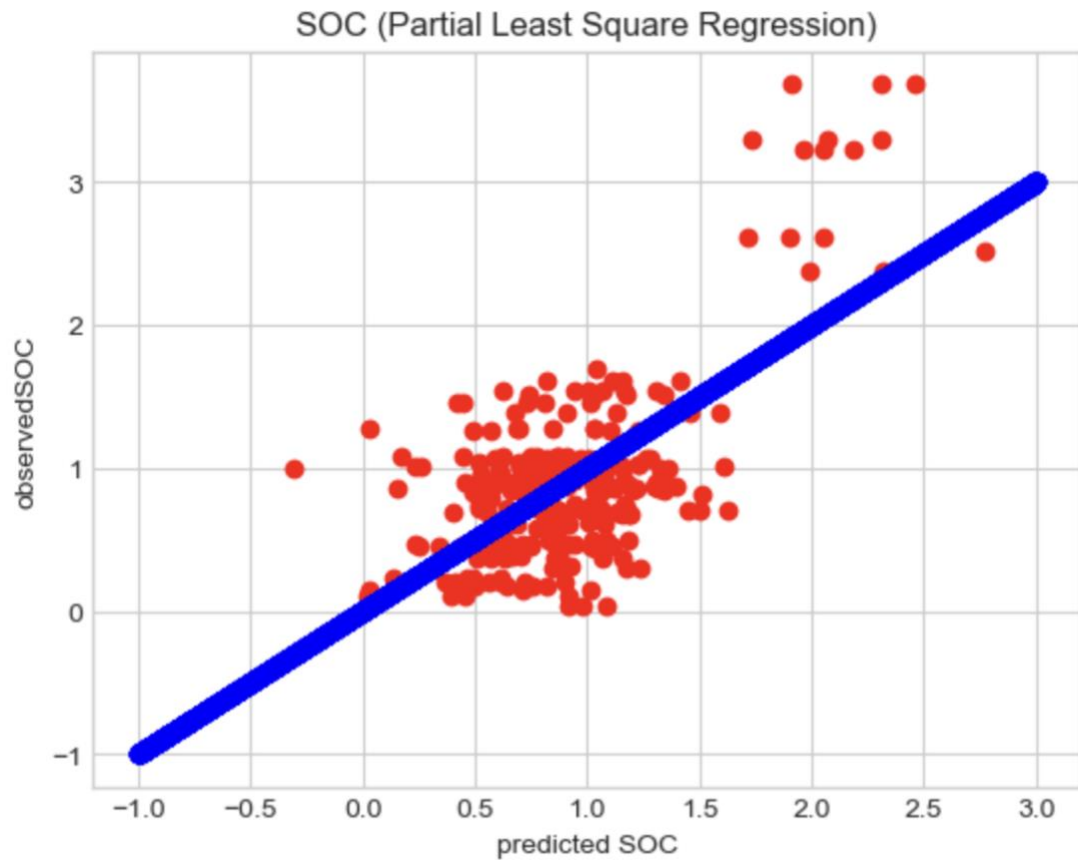
```
In [22]: # R-squared

model.score(x.values, y.values)
```

```
Out[22]: 0.4943502560590146
```



## 6. PLSR 20m – S2A



In [27]: #####모델 검증

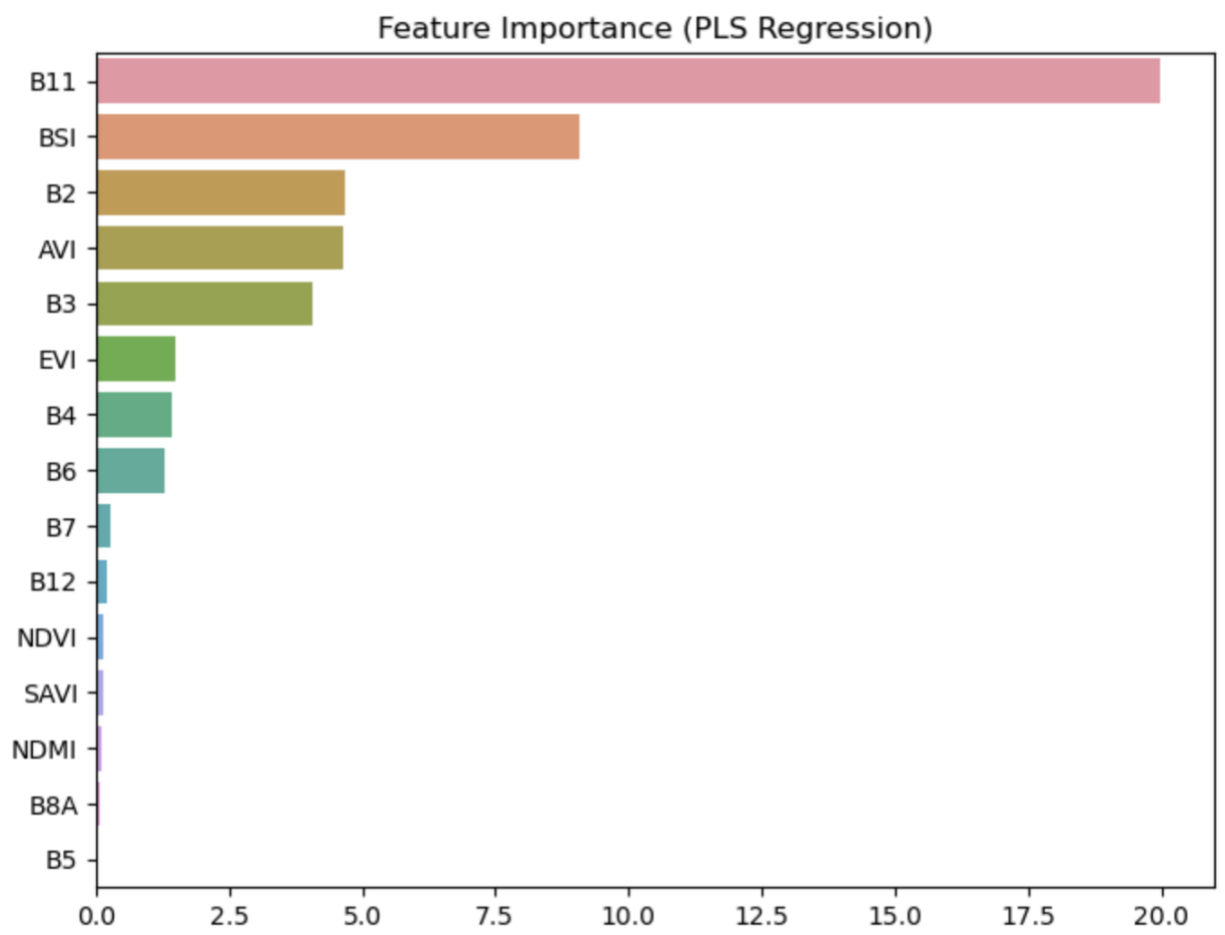
```
print(model.score(x_train, y_train)) #  
print(model.score(x_test, y_test)) #
```

```
0.4773710491083185  
0.2965150117922244
```

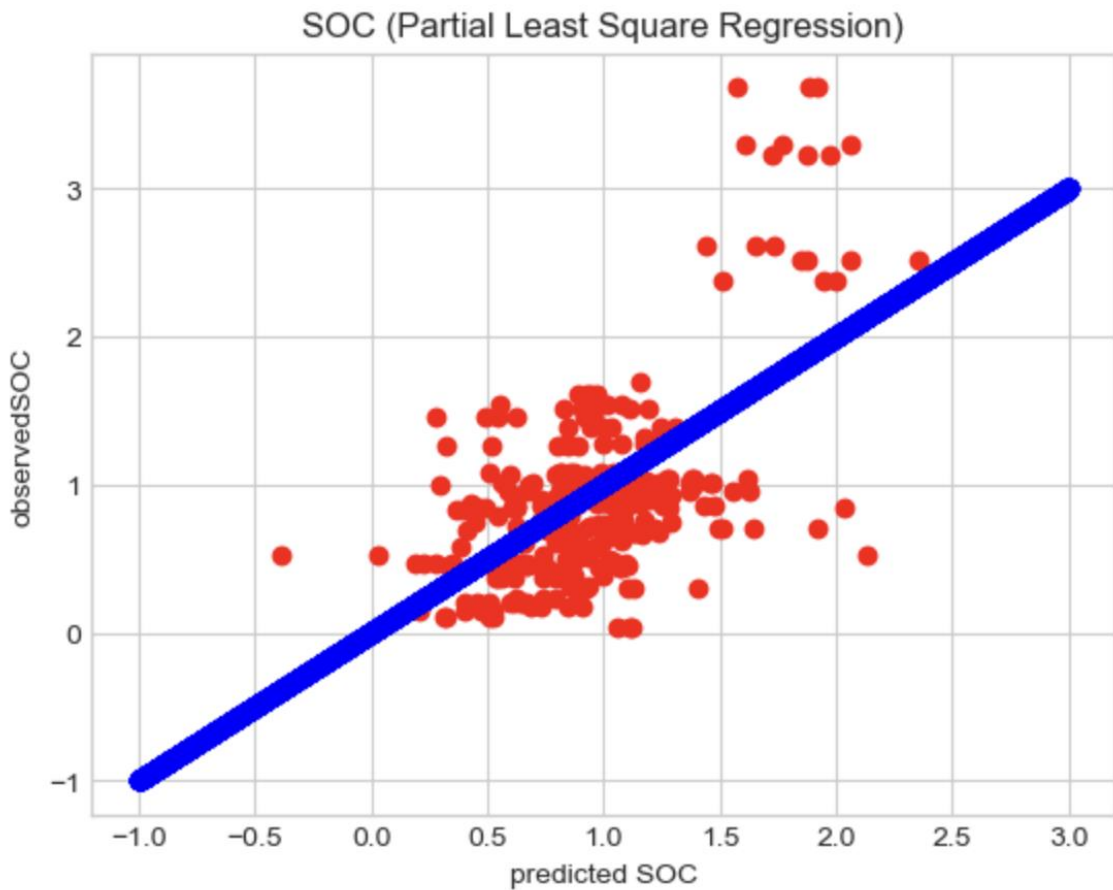
In [28]: # R-squared

```
model.score(x.values, y.values)
```

Out[28]: 0.43852002723321537



## 7. PLSR 10m – S2A



```
In [45]: #####모델 검증

print(model.score(x_train, y_train)) #

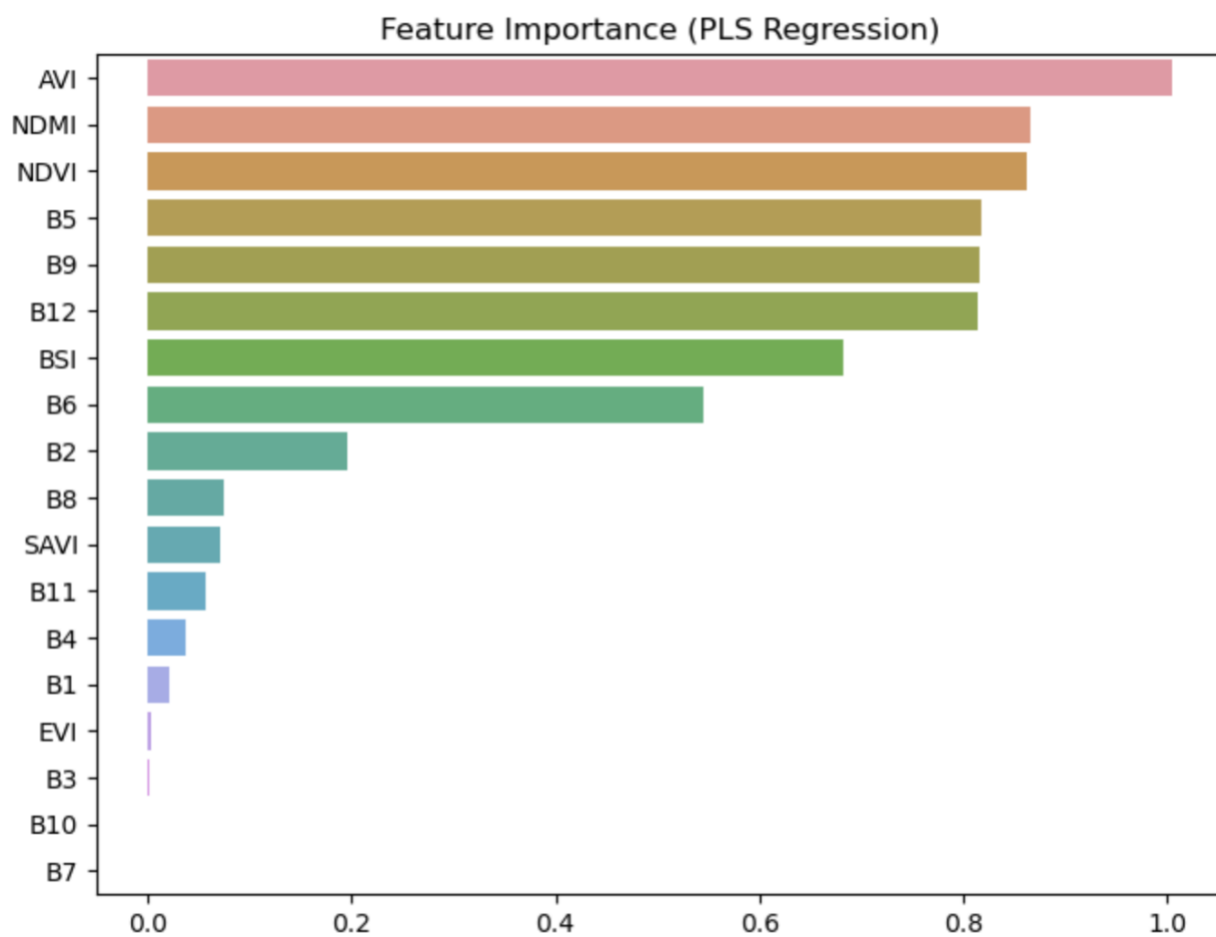
print(model.score(x_test, y_test)) #

0.3771753932542794
0.25154658044795175
```

```
In [47]: # R-squared

model.score(x.values, y.values)

Out[47]: 0.35297288763133783
```



## 8. ANN 20m – S2A

```
In [20]: # 테스트셋을 통한 모델 평가
model.evaluate(normed_test_data, pd.DataFrame(y_test), verbose=2)
# verbose : 결과 출력의 단계 설정
# auto - 대부분 1로 지정됨
# 0 - 출력 없음
# 1 - 진행 상황 출력(프로그레스바 포함)
# 2 - 진행 상황 출력(프로그레스바 제외, 1에 비해 간소화)

3/3 - 0s - loss: 0.2684 - accuracy: 0.0714 - 160ms/epoch - 53ms/st

2022-11-08 19:13:42.692184: I tensorflow/core/grappler/optimizers/c
mizer for device_type GPU is enabled.

Out[20]: [0.26841333508491516, 0.0714285746216774]
```