

## ▼ Fashion MNIST - Categorical Classification

```
import warnings
warnings.filterwarnings('ignore')
```

## ▼ Import Tensorflow & Keras

- import Keras

```
import keras

keras.__version__
```

## ▼ I. Fashion MNIST Data\_Set Load & Review

### ▼ 1) Load Fashion MNIST Data\_Set

```
from keras.datasets import fashion_mnist

(X_train, y_train), (X_test, y_test) = fashion_mnist.load_data()
```

- Train\_Data Information

```
print(len(X_train))
print(X_train.shape)

print(len(y_train))
print(y_train[0:5])
```

- Test\_Data Information

```
print(len(X_test))
print(X_test.shape)

print(len(y_test))
print(y_test[0:5])
```

## ▼ 2) Visualization

```
import matplotlib.pyplot as plt
```

```
digit = X_train[0]  
plt.imshow(digit, cmap = 'gray')  
plt.show()
```

```
import numpy as np  
np.set_printoptions(linewidth = 150)  
  
print(X_train[0])
```

#

#

#

## The End

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#

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