JL0423 / assignment_3

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```
1   import tensorflow as tf
2   from tensorflow import keras
3   import numpy as np
4   import matplotlib.pyplot as plt
5
6
7   fashion_mnist = keras.datasets.fashion_mnist
8   (train_images, train_labels), (test_images, test_labels) = fashion_mnist.load_data()
9
10
11  class_names = ['T-shirt/top', 'Trouser', 'Pullover', 'Dress', 'Coat',
12                 'Sandal', 'Shirt', 'Sneaker', 'Bag', 'Ankle boot']
13
14
15  train_images = train_images / 255.0
16  test_images = test_images / 255.0
17
18
19  model = keras.Sequential([
20      keras.layers.Flatten(input_shape=(28, 28)),
21      keras.layers.Dense(128, activation='relu'),
22      keras.layers.Dense(10)
23  ])
24
25
26  model.compile(optimizer='adam',
27                loss=tf.keras.losses.SparseCategoricalCrossentropy(from_logits=True),
28                metrics=['accuracy'])
29
30  model.fit(train_images, train_labels, epochs=10)
31
32  test_loss, test_acc = model.evaluate(test_images,  test_labels, verbose=2)
33  print('\nTest accuracy:', test_acc)
34
35  probability_model = tf.keras.Sequential([model, tf.keras.layers.Softmax()])
36  predictions = probability_model.predict(test_images)
```

Use `Control + Shift + m` to toggle the `tab` key moving focus. Alternatively, use `esc` then `tab` to move to the next interactive element on the page.