

**Task 1 :**

```
def dragEnterEvent(self, event: QDragEnterEvent):
    if event.mimeData().hasUrls():
        event.accept()
    else:
        event.ignore()

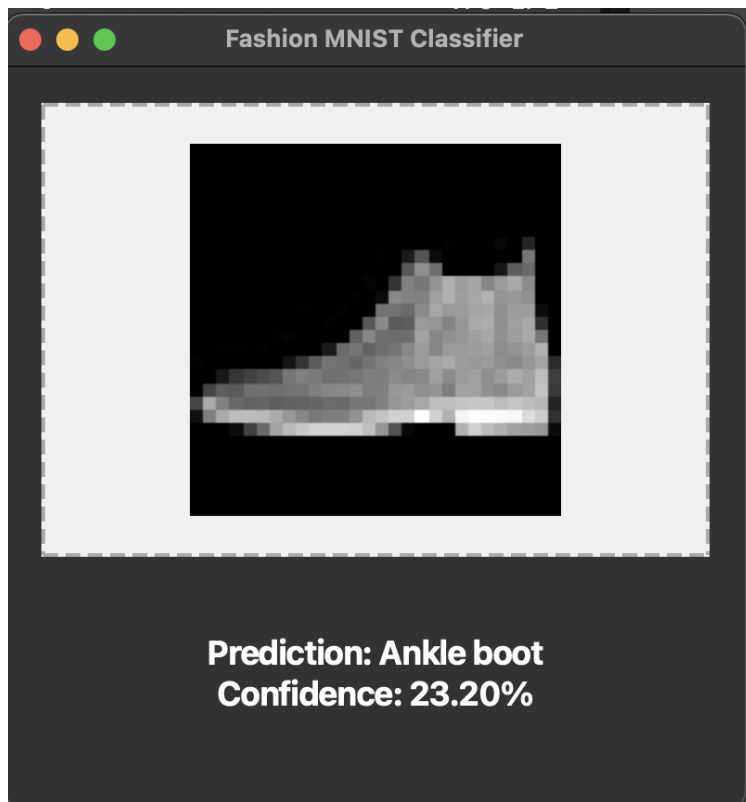
def dropEvent(self, event: QDropEvent):
    file_path = event.mimeData().urls()[0].toLocalFile()
    self.process_image(file_path)
```

## Task 2 :

Model: "sequential"

Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 26, 26, 32)	320
max_pooling2d (MaxPooling2D)	(None, 13, 13, 32)	0
conv2d_1 (Conv2D)	(None, 11, 11, 64)	18,496
max_pooling2d_1 (MaxPooling2D)	(None, 5, 5, 64)	0
conv2d_2 (Conv2D)	(None, 3, 3, 64)	36,928
flatten (Flatten)	(None, 576)	0
dense (Dense)	(None, 128)	73,856
dense_1 (Dense)	(None, 10)	1,290

Total params: 392,672 (1.50 MB)  
Trainable params: 130,890 (511.29 KB)  
Non-trainable params: 0 (0.00 B)  
Optimizer params: 261,782 (1022.59 KB)



```
Epoch 1/7
1875/1875 — 16s 8ms/step - accuracy: 0.7403 - loss: 0.6975 - val_accuracy: 0.8571 - val_loss: 0.3884
Epoch 2/7
1875/1875 — 18s 9ms/step - accuracy: 0.8749 - loss: 0.3332 - val_accuracy: 0.8850 - val_loss: 0.3146
Epoch 3/7
1875/1875 — 17s 9ms/step - accuracy: 0.8953 - loss: 0.2811 - val_accuracy: 0.8882 - val_loss: 0.3044
Epoch 4/7
1875/1875 — 17s 9ms/step - accuracy: 0.9070 - loss: 0.2442 - val_accuracy: 0.9026 - val_loss: 0.2710
Epoch 5/7
1875/1875 — 19s 10ms/step - accuracy: 0.9192 - loss: 0.2173 - val_accuracy: 0.9046 - val_loss: 0.2623
Epoch 6/7
1875/1875 — 17s 9ms/step - accuracy: 0.9269 - loss: 0.1954 - val_accuracy: 0.9075 - val_loss: 0.2596
Epoch 7/7
1875/1875 — 17s 9ms/step - accuracy: 0.9351 - loss: 0.1768 - val_accuracy: 0.9103 - val_loss: 0.2621
```