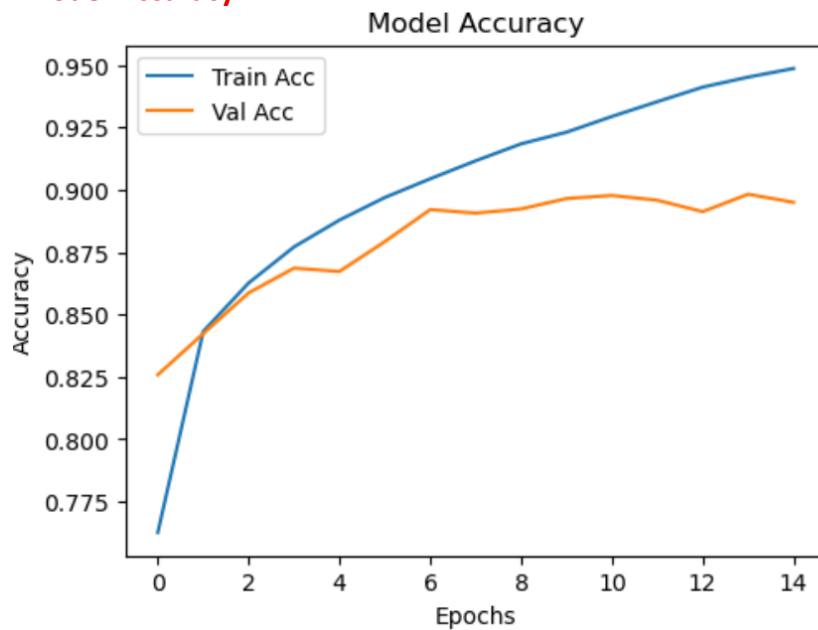


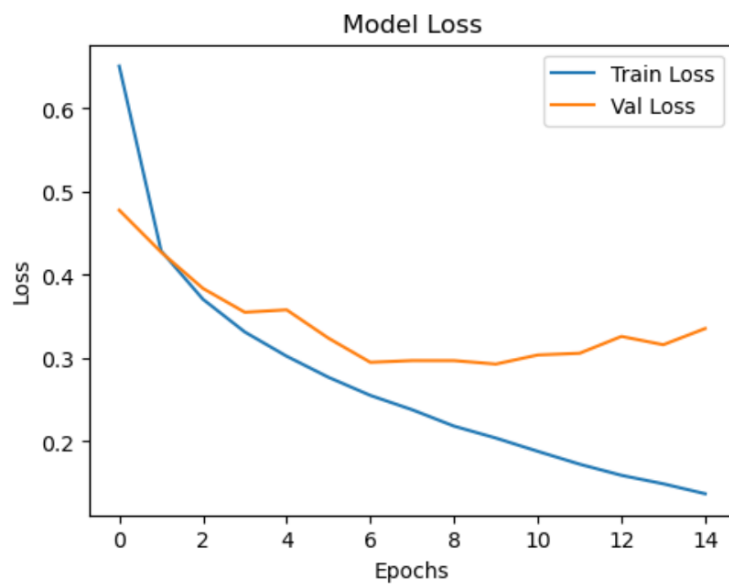
Importing libraries

```
import numpy as np
import matplotlib.pyplot as plt
from tensorflow import keras
from tensorflow.keras import layers
from sklearn.metrics import classification_report, confusion_matrix
import seaborn as sns
```

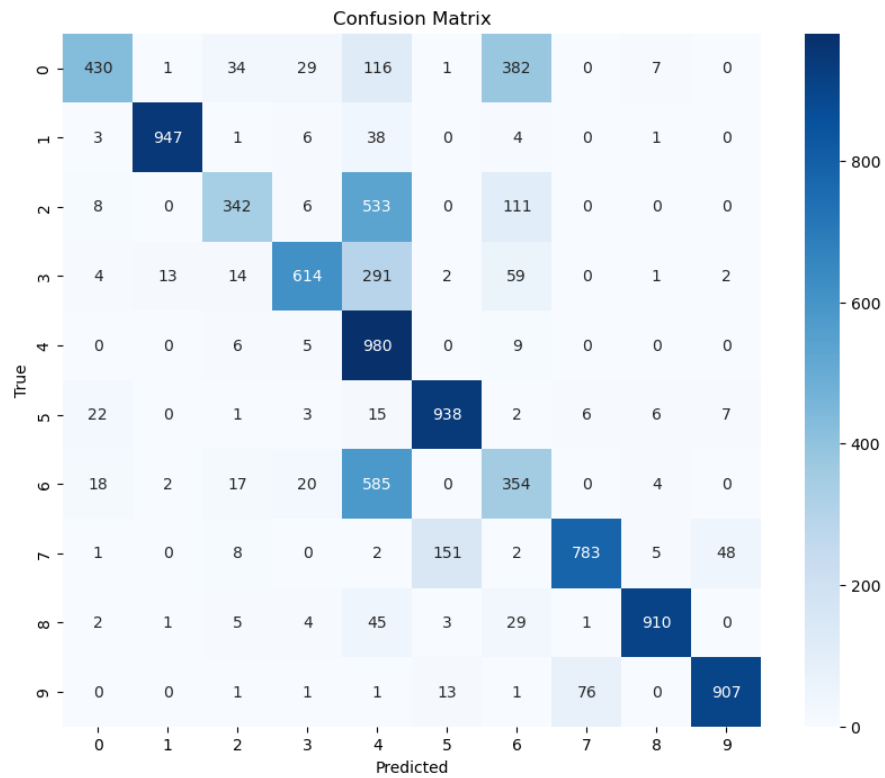
Model Accuracy



Model Loss



Confusion Matrix



Classification Report

Classification Report:

	precision	recall	f1-score	support
0	0.90	0.79	0.84	1000
1	0.99	0.98	0.98	1000
2	0.84	0.84	0.84	1000
3	0.91	0.87	0.89	1000
4	0.78	0.91	0.84	1000
5	0.99	0.97	0.98	1000
6	0.71	0.70	0.71	1000
7	0.93	0.97	0.95	1000
8	0.98	0.98	0.98	1000
9	0.97	0.94	0.96	1000
accuracy			0.90	10000
macro avg	0.90	0.90	0.90	10000
weighted avg	0.90	0.90	0.90	10000