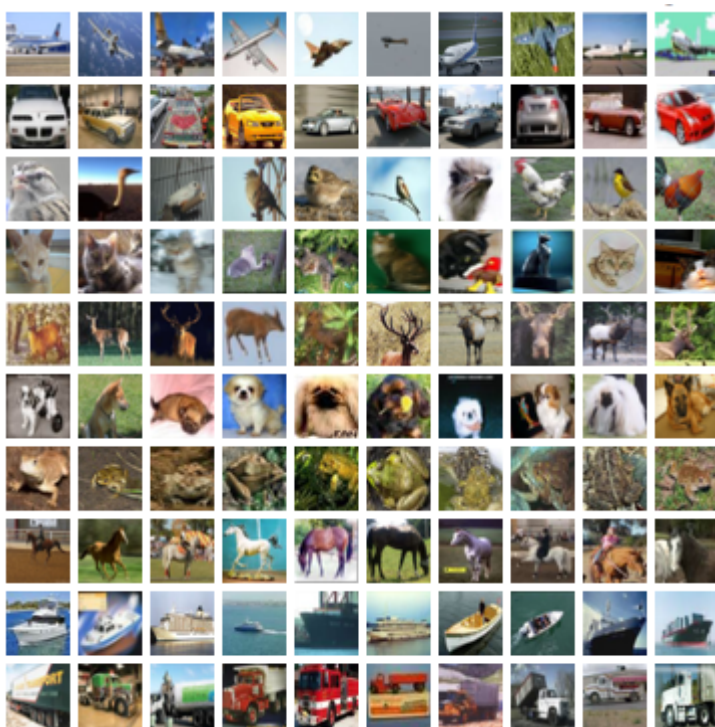


Observation and results:

Sample Data

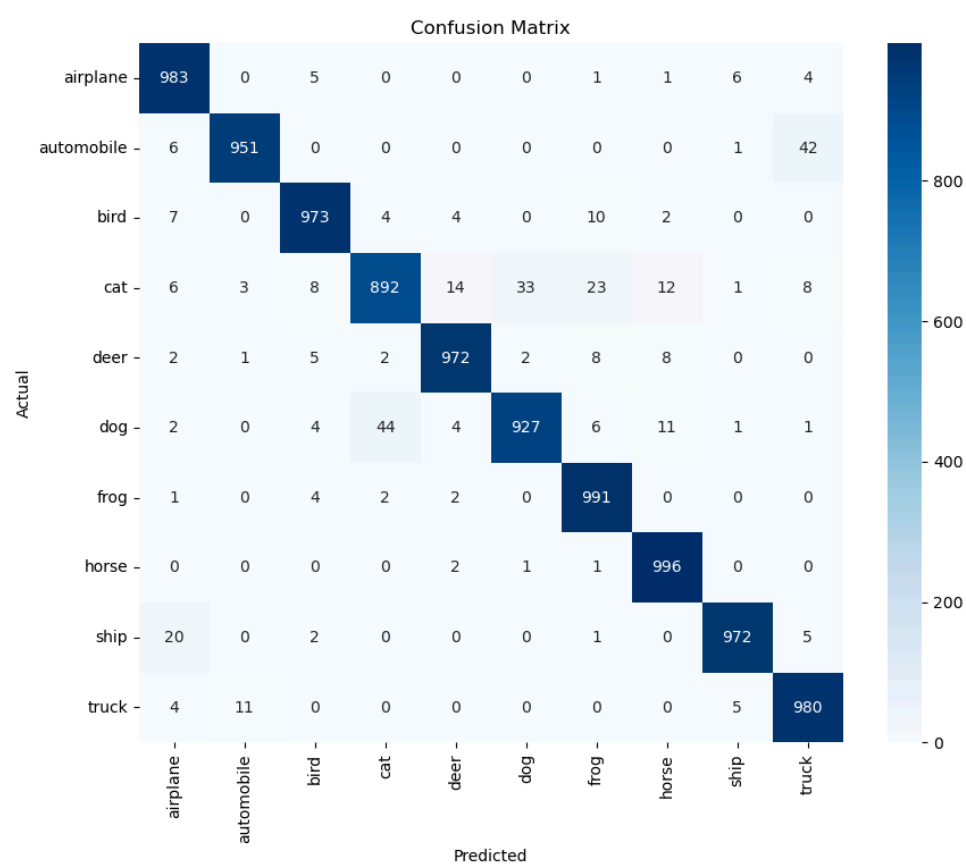
CIFAR-10 is a widely used image classification dataset consisting of 60,000 color images divided into 10 classes: airplane, automobile, bird, cat, deer, dog, frog, horse, ship, and truck. Each image has a resolution of 32×32 pixels with three color channels (RGB). The dataset is split into 50,000 training images and 10,000 test images. CIFAR-10 is commonly used for benchmarking deep learning models, especially in computer vision tasks like classification and transfer learning.



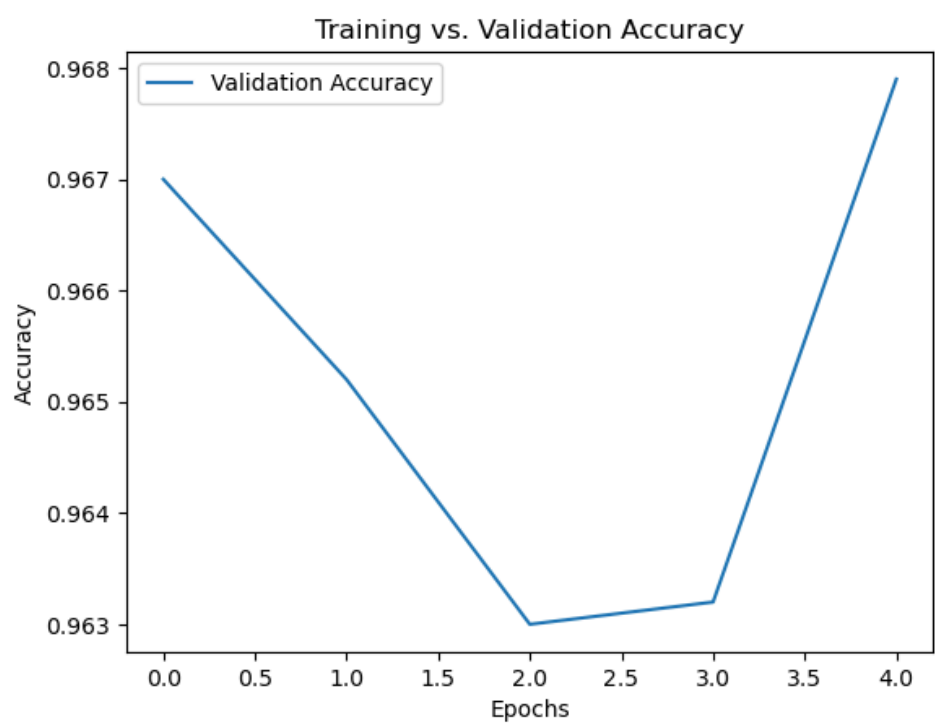
Model Evaluation

Test Loss: 0.1034, Test Accuracy: 0.9661

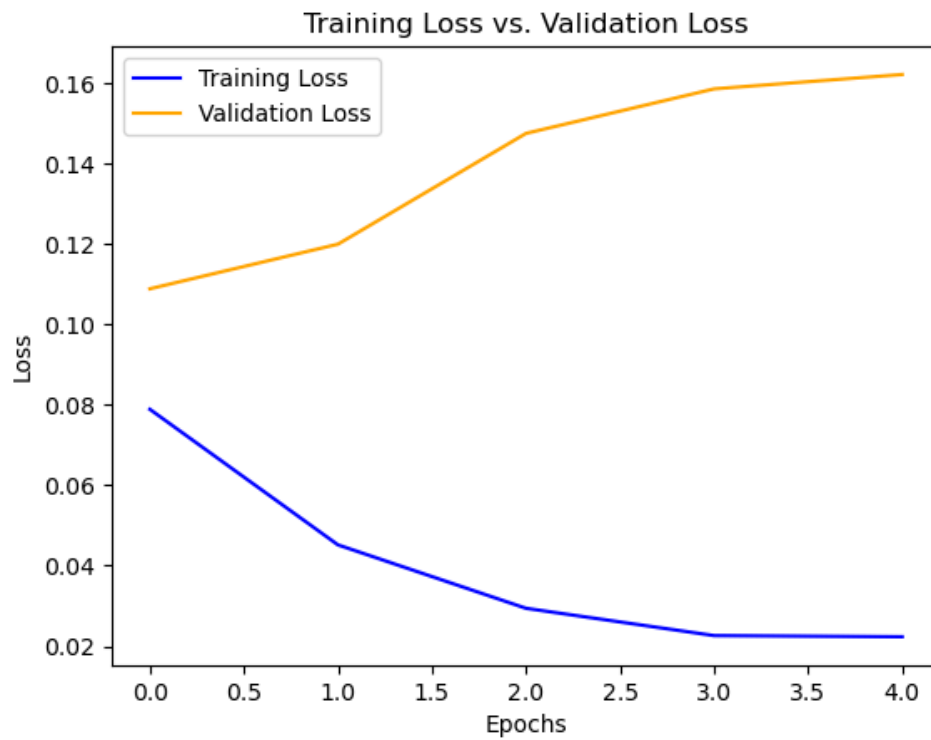
Confusion Matrix



Validation Accuracy



Training Loss vs Validation Loss



ROC CURVE

