

## 1 Result

```
66 # Predicting First image
67 # Predicting First image
68 img_path = r'C:\Users\anmol\OneDrive\Pictures\R.jpeg' # Path of my image
69 img_array = load_and_preprocess_image(img_path)
70 predicted_class = classify_image(model, img_array)
71
72 class_names = ['airplane', 'automobile', 'bird', 'cat', 'deer', 'dog', 'frog', 'house', 'ship', 'truck']
73 predicted_class_name = class_names[predicted_class]
74 print(f'The predicted class is: {predicted_class_name}')
75
76 |
77 # Predicting Second image
78 img_path2 = r'C:\Users\anmol\OneDrive\Pictures\Car.jpeg' # Path of image
79 img_array2 = load_and_preprocess_image(img_path2)
80 predicted_class= classify_image(model, img_array2)
81 class_names = ['airplane', 'automobile', 'bird', 'cat', 'deer', 'dog', 'frog', 'house', 'ship', 'truck']
82 predicted_class_name2 = class_names[predicted_class]
83
84 print(f'The predicted class is: {predicted_class_name2}')
```

**Fig. 6 : Predicting New Image**



**Fig.7: Used Image 1**



**Fig.8: Used Image**

```
17 print('The predicted class is: {predicted_class_name}')
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS

Epoch 5/10  
1563/1563 16s 10ms/step - accuracy: 0.7118 - loss: 0.8204 - val\_accuracy: 0.6748 - val\_loss: 0.9458  
Epoch 6/10  
1563/1563 16s 10ms/step - accuracy: 0.7302 - loss: 0.7642 - val\_accuracy: 0.6894 - val\_loss: 0.9130  
Epoch 7/10  
1563/1563 16s 10ms/step - accuracy: 0.7502 - loss: 0.7088 - val\_accuracy: 0.7086 - val\_loss: 0.8470  
Epoch 8/10  
1563/1563 16s 10ms/step - accuracy: 0.7714 - loss: 0.6551 - val\_accuracy: 0.7170 - val\_loss: 0.8442  
Epoch 9/10  
1563/1563 16s 10ms/step - accuracy: 0.7793 - loss: 0.6285 - val\_accuracy: 0.7136 - val\_loss: 0.8743  
Epoch 10/10  
1563/1563 16s 10ms/step - accuracy: 0.7941 - loss: 0.5802 - val\_accuracy: 0.7145 - val\_loss: 0.8729  
1/1 0s 94ms/step  
The predicted class is: airplane  
1/1 0s 26ms/step  
The predicted class is: automobile

**Fig.9: Predicted Class for Both the image data**