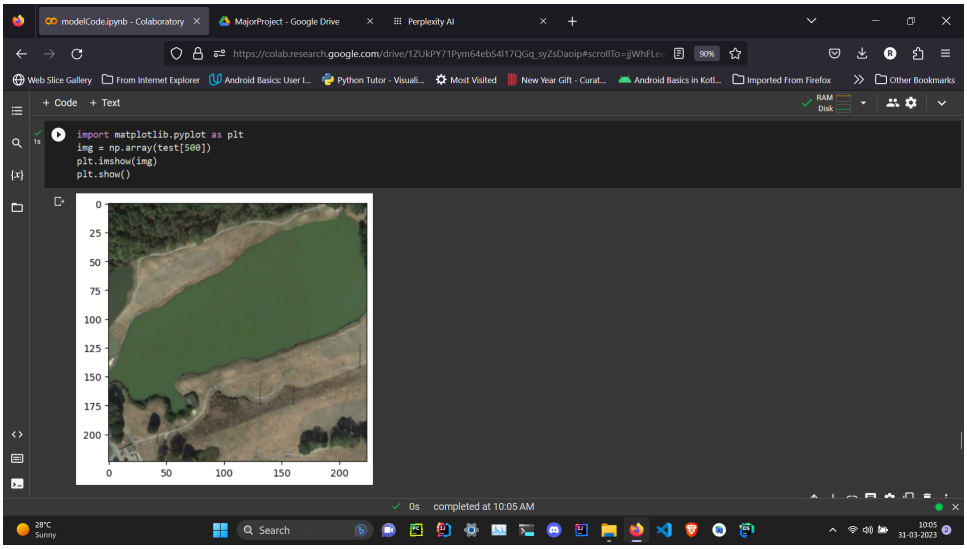
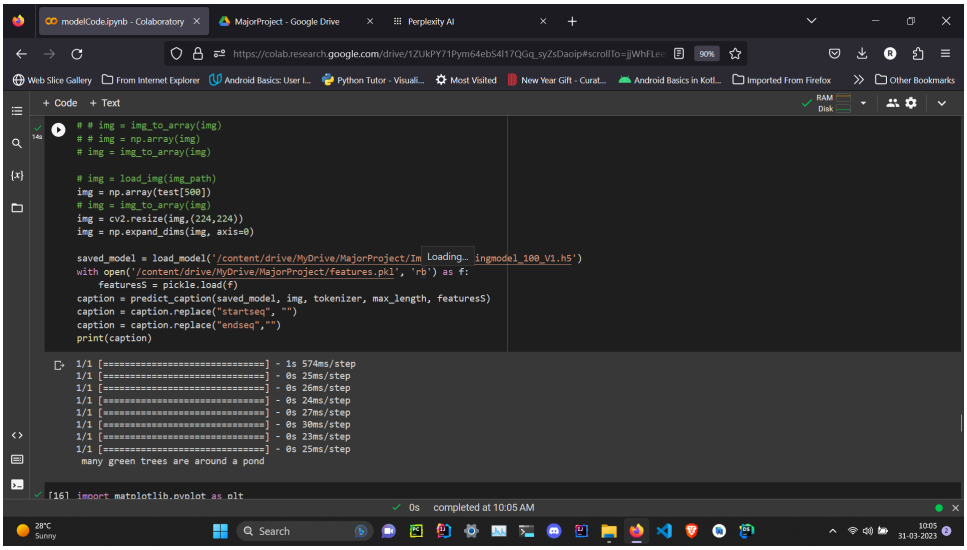
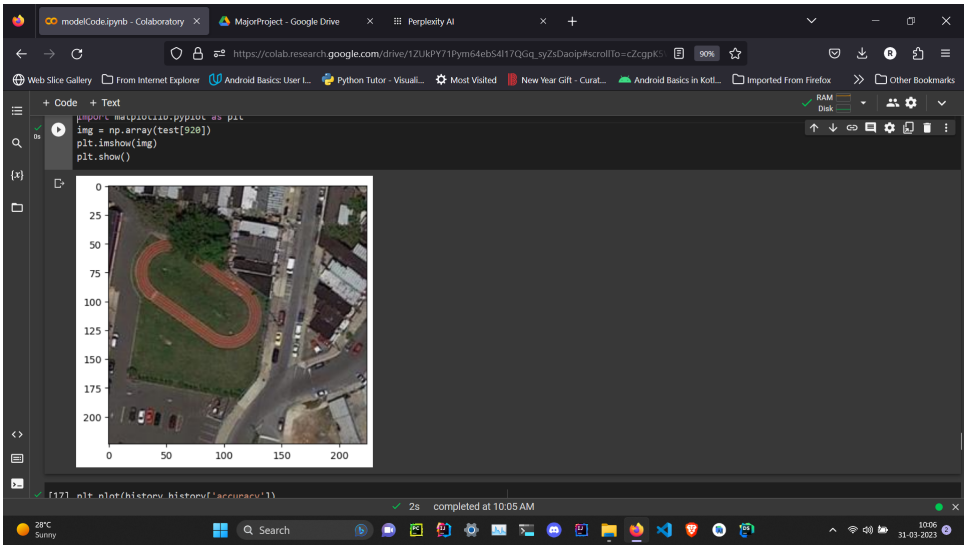
Major Project

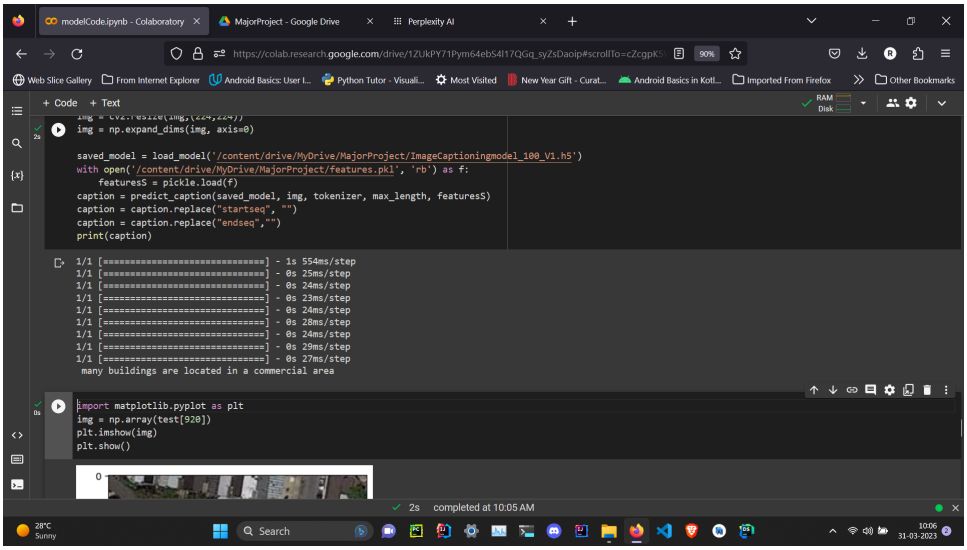
Test 1



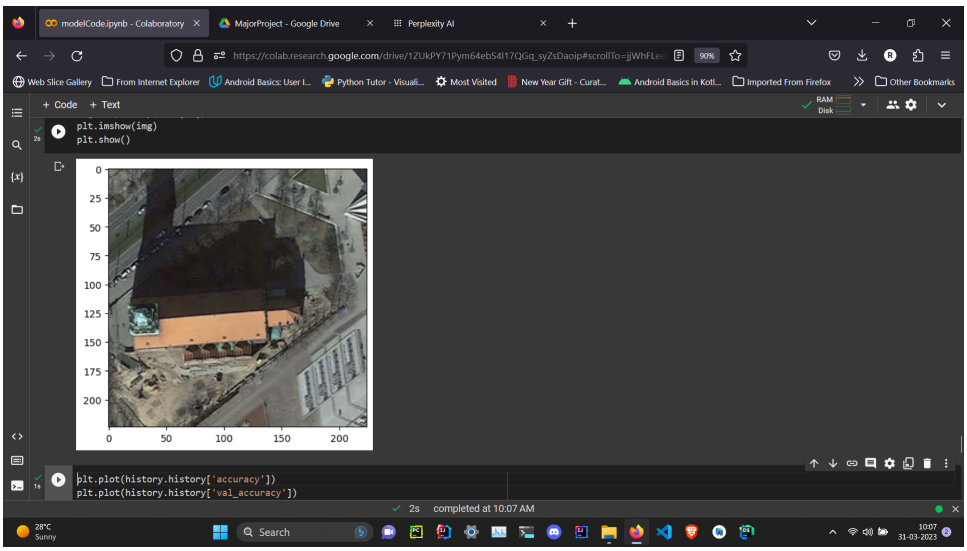


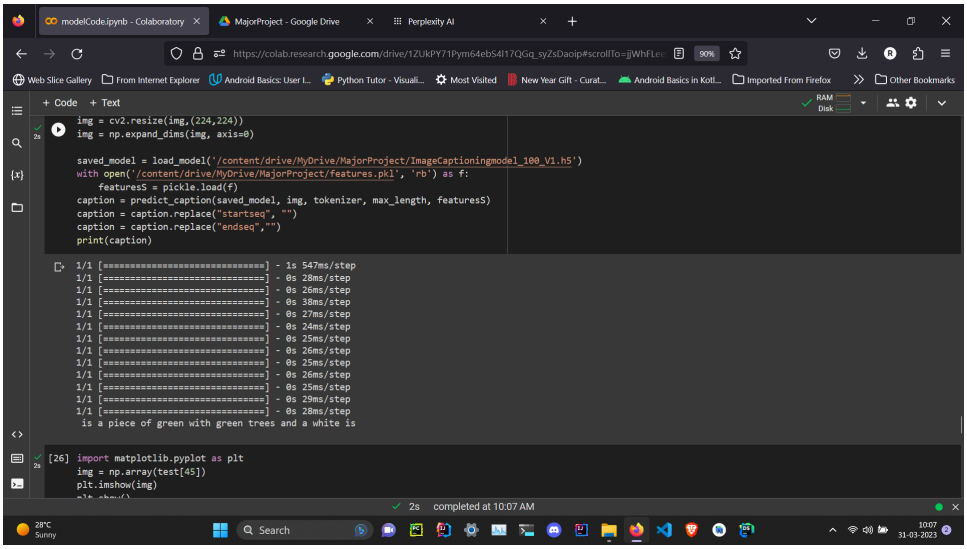
Test 2


modelCode.ipynb - Colaboratory
MajorProject - Google Drive
Perplexity AI
+ Code + Text
import matplotlib.pyplot as plt
img = np.array(test[920])
plt.imshow(img)
plt.show()
0
25
50
75
100
125
150
175
200
0
50
100
150
200
[17] plt.plot(history.history['accuracy'])
2s completed at 10:05 AM
Search
31-03-2023

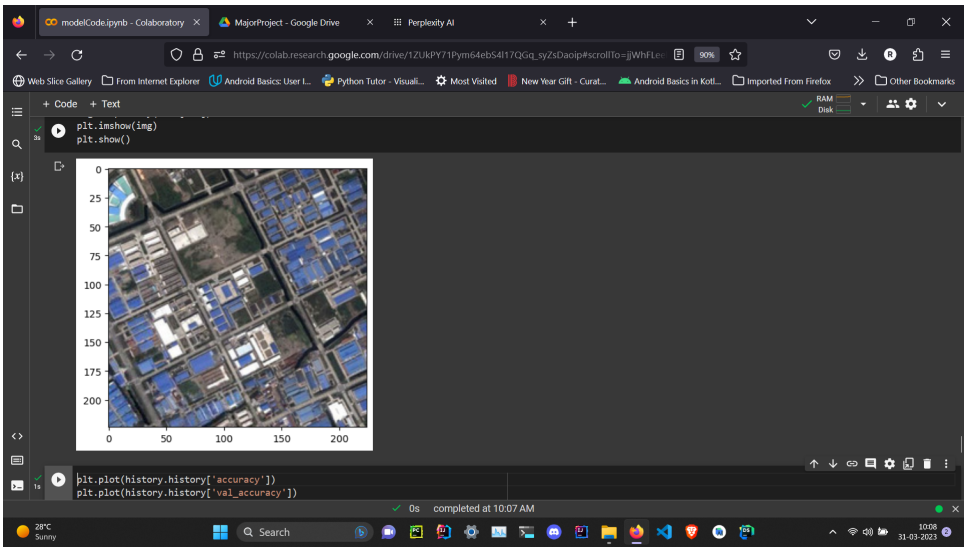

modelCode.ipynb - Colaboratory
MajorProject - Google Drive
Perplexity AI
+ Code + Text
img = np.expand_dims(img, axis=0)
saved_model = load_model('/content/drive/MyDrive/MajorProject/ImageCaptioningmodel_100_V1.h5')
with open('/content/drive/MyDrive/MajorProject/features.pkl', 'rb') as f:
featuresS = pickle.load(f)
caption = predict_caption(saved_model, img, tokenizer, max_length, featuresS)
caption = caption.replace("startseq", "")
caption = caption.replace("endseq","")
print(caption)
1/1 [==============================] - 1s 554ms/step
1/1 [==============================] - 0s 25ms/step
1/1 [==============================] - 0s 24ms/step
1/1 [==============================] - 0s 23ms/step
1/1 [==============================] - 0s 24ms/step
1/1 [==============================] - 0s 28ms/step
1/1 [==============================] - 0s 24ms/step
1/1 [==============================] - 0s 29ms/step
1/1 [==============================] - 0s 27ms/step
many buildings are located in a commercial area
import matplotlib.pyplot as plt
img = np.array(test[920])
plt.imshow(img)
plt.show()
2s completed at 10:05 AM
Search
31-03-2023

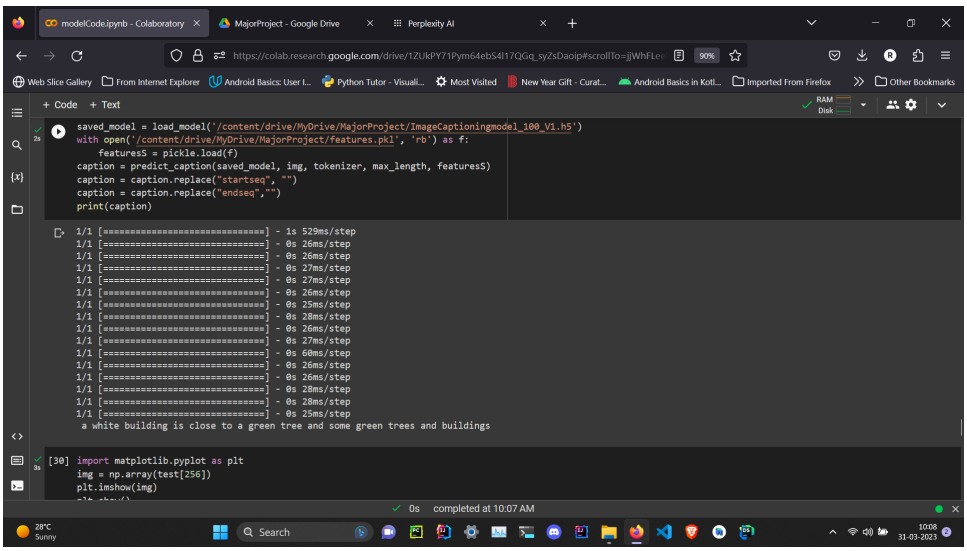
Test 3


modelCode.ipynb - Colaboratory
MajorProject - Google Drive
Perplexity AI
+ Code + Text
plt.imshow(img)
plt.show()
0
25
50
75
100
125
150
175
200
0
50
100
150
200
plt.plot(history.history['accuracy'])
plt.plot(history.history['val_accuracy'])
2s completed at 10:07 AM
Search
31-03-2023

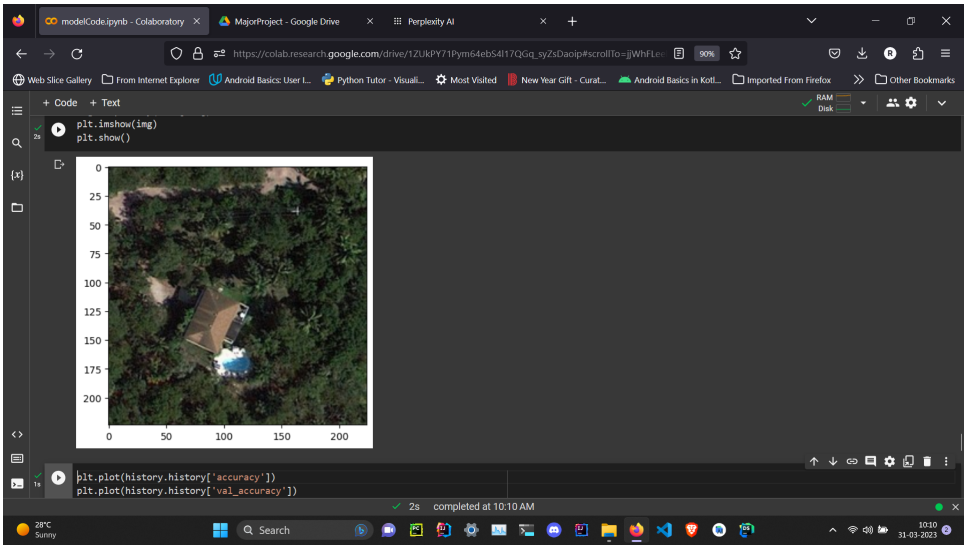

modelCode.ipynb - Colaboratory
MajorProject - Google Drive
Perplexity AI
+ Code + Text
img = cv2.resize(img,(224,224))
img = np.expand_dims(img, axis=0)
saved_model = load_model('/content/drive/MyDrive/MajorProject/ImageCaptioningmodel_100_V1.h5')
with open('/content/drive/MyDrive/MajorProject/features.pkl', 'rb') as f:
featuresS = pickle.load(f)
caption = predict_caption(saved_model, img, tokenizer, max_length, featuresS)
caption = caption.replace("startseq", "")
caption = caption.replace("endseq","")
print(caption)
1/1 [==========] - 1s 547ms/step
1/1 [==========] - 0s 28ms/step
1/1 [==========] - 0s 26ms/step
1/1 [==========] - 0s 38ms/step
1/1 [==========] - 0s 27ms/step
1/1 [==========] - 0s 24ms/step
1/1 [==========] - 0s 25ms/step
1/1 [==========] - 0s 26ms/step
1/1 [==========] - 0s 25ms/step
1/1 [==========] - 0s 26ms/step
1/1 [==========] - 0s 25ms/step
1/1 [==========] - 0s 29ms/step
1/1 [==========] - 0s 28ms/step
is a piece of green with green trees and a white is
[26] import matplotlib.pyplot as plt
img = np.array(test[45])
plt.imshow(img)
2s completed at 10:07 AM

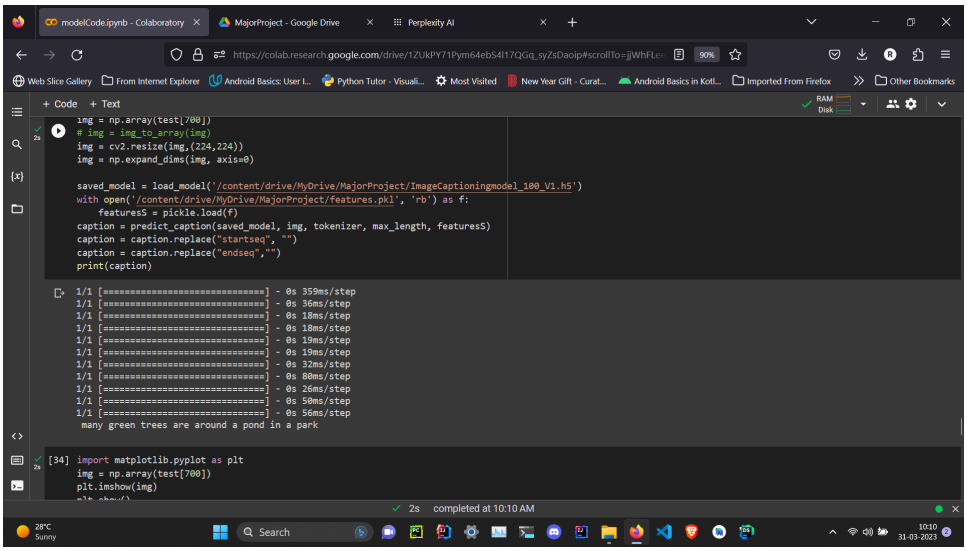
Test 4


modelCode.ipynb - Colaboratory
MajorProject - Google Drive
Perplexity AI
+ Code + Text
plt.imshow(img)
plt.show()
0
25
50
75
100
125
150
175
200
0
50
100
150
200
plt.plot(history.history['accuracy'])
plt.plot(history.history['val_accuracy'])
0s completed at 10:07 AM


modelCode.ipynb - Colaboratory
MajorProject - Google Drive
Perplexity AI
+ Code + Text
saved_model = load_model('/content/drive/MyDrive/MajorProject/ImageCaptioningmodel_100_V1.h5')
with open('/content/drive/MyDrive/MajorProject/features.pkl', 'rb') as f:
featuresS = pickle.load(f)
caption = predict_caption(saved_model, img, tokenizer, max_length, featuresS)
caption = caption.replace("startseq", "")
caption = caption.replace("endseq","")
print(caption)
1/1 [==========] - 1s 529ms/step
1/1 [==========] - 0s 26ms/step
1/1 [==========] - 0s 26ms/step
1/1 [==========] - 0s 27ms/step
1/1 [==========] - 0s 27ms/step
1/1 [==========] - 0s 26ms/step
1/1 [==========] - 0s 25ms/step
1/1 [==========] - 0s 28ms/step
1/1 [==========] - 0s 26ms/step
1/1 [==========] - 0s 27ms/step
1/1 [==========] - 0s 60ms/step
1/1 [==========] - 0s 26ms/step
1/1 [==========] - 0s 26ms/step
1/1 [==========] - 0s 28ms/step
1/1 [==========] - 0s 28ms/step
1/1 [==========] - 0s 25ms/step
a white building is close to a green tree and some green trees and buildings
[30] import matplotlib.pyplot as plt
img = np.array(test[256])
plt.imshow(img)
0s completed at 10:07 AM

Test 5


modelCode.ipynb - Colaboratory
MajorProject - Google Drive
Perplexity AI
+ Code
+ Text
plt.imshow(img)
plt.show()
plt.plot(history.history['accuracy'])
plt.plot(history.history['val_accuracy'])
2s completed at 10:10 AM


modelCode.ipynb - Colaboratory
MajorProject - Google Drive
Perplexity AI
+ Code
+ Text
img = np.array(test[700])
# img = img_to_array(img)
img = cv2.resize(img,(224,224))
img = np.expand_dims(img, axis=0)
saved_model = load_model('/content/drive/MyDrive/MajorProject/ImageCaptioningmodel_100_V1.h5')
with open('/content/drive/MyDrive/MajorProject/features.pkl', 'rb') as f:
featuresS = pickle.load(f)
caption = predict_caption(saved_model, img, tokenizer, max_length, featuresS)
caption = caption.replace("startseq", "")
caption = caption.replace("endseq","")
print(caption)
1/1 [==============================] - 0s 359ms/step
1/1 [==============================] - 0s 36ms/step
1/1 [==============================] - 0s 18ms/step
1/1 [==============================] - 0s 18ms/step
1/1 [==============================] - 0s 19ms/step
1/1 [==============================] - 0s 19ms/step
1/1 [==============================] - 0s 32ms/step
1/1 [==============================] - 0s 80ms/step
1/1 [==============================] - 0s 26ms/step
1/1 [==============================] - 0s 50ms/step
1/1 [==============================] - 0s 56ms/step
many green trees are around a pond in a park
[34] import matplotlib.pyplot as plt
img = np.array(test[700])
plt.imshow(img)
2s completed at 10:10 AM