lung-cancer

May 21, 2025

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[1]: import numpy as np
     import pandas as pd
     import matplotlib.pyplot as plt
     import cv2
     import PIL as pl
     import random
     from sklearn.model_selection import train_test_split
     import tensorflow as tf
     from tensorflow.keras.utils import image_dataset_from_directory, img_to_array
     from tensorflow.keras.models import Sequential
     from tensorflow.keras.layers import Conv2D, AvgPool2D, MaxPooling2D, Flatten,
      →Dense, Dropout
     import os
     for dirname, _, filenames in os.walk('/content/Lung Cancer'):
         for filename in filenames:
             print(os.path.join(dirname, filename))
     import warnings
     warnings.filterwarnings('ignore')
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(402).jpg
```

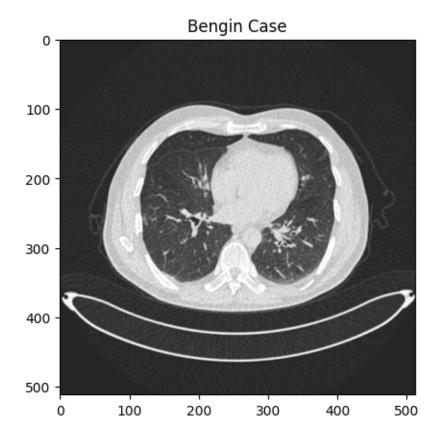
```
/content/Lung Cancer/The IQ-OTHNCCD lung cancer dataset/Normal Cases/Normal case
(198).jpg
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(173).jpg
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(217).jpg
/content/Lung Cancer/The IQ-OTHNCCD lung cancer dataset/Normal Cases/Normal case
(197).jpg
/content/Lung Cancer/The IQ-OTHNCCD lung cancer dataset/Normal Cases/Normal case
(371).jpg
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(403).jpg
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(407).jpg
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(175).jpg
/content/Lung Cancer/The IQ-OTHNCCD lung cancer dataset/Normal Cases/Normal case
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/content/Lung Cancer/The IQ-OTHNCCD lung cancer dataset/Normal Cases/Normal case
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(182).jpg
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(80).jpg
/content/Lung Cancer/The IQ-OTHNCCD lung cancer dataset/Normal Cases/Normal case
(335).jpg
/content/Lung Cancer/The IQ-OTHNCCD lung cancer dataset/Normal Cases/Normal case
(58).jpg
```

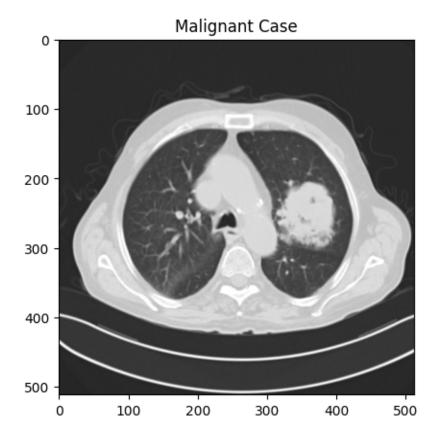
/content/Lung Cancer/The IQ-OTHNCCD lung cancer dataset/Normal Cases/Normal case (298).jpg
/content/Lung Cancer/The IQ-OTHNCCD lung cancer dataset/Normal Cases/Normal case (112).jpg
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/content/Lung Cancer/The IQ-OTHNCCD lung cancer dataset/Normal Cases/Normal case (266).jpg $\,$

[5]: <matplotlib.image.AxesImage at 0x7978de981e50>



[7]: <matplotlib.image.AxesImage at 0x7978d9e72850>



[8]: <matplotlib.image.AxesImage at 0x7978d9eb1f90>

```
Normal Case

100

200

300

400

100

200

300

400

500
```

```
[9]: img.shape
 [9]: (512, 512, 3)
[12]: dir = '/content/Lung Cancer/The IQ-OTHNCCD lung cancer dataset'
      img_width = 256
      img_height = 256
[14]: # Second section of the path
      categories = ['Bengin Cases', 'Malignant Cases', 'Normal Cases'] # Corrected_
       ⇔directory names
      # Now we get the images using complete path and store the images into img_data_{\sqcup}
       \hookrightarrow folder.
      img_data = []
      for cata in categories:
          folder = os.path.join(dir, cata)
          label = categories.index(cata)
          for img in os.listdir(folder):
              img_path = os.path.join(folder, img)
```

```
try:
                   # Attempt to read and resize the image
                   img_array = cv2.imread(img_path)
                   img_array = cv2.resize(img_array, (img_height, img_width))
                   # Check if the image array is not empty
                  if img_array is not None and not img_array.size == 0:
                       img_data.append([img_array, label])
              except Exception as e:
                  # It might be helpful to print the error and the file path here
                   # to catch other potential issues like corrupt images.
                   # print(f"Error processing {img_path}: {e}")
                  continue
[15]: random.shuffle(img_data)
      \mathbf{x} = []
      y=[]
      for features,labels in img_data:
          x.append(features)
          y.append(labels)
      #Convert X and Y list into array
      X=np.array(x, dtype = float)
      Y=np.array(y, dtype = float)
[16]: print(X[19])
     [[[38. 38. 38.]
       [38. 38. 38.]
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```

```
[38. 38. 38.]
       [38. 38. 38.]
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      [[38. 38. 38.]
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       [38. 38. 38.]]]
[17]: for i in range(len(X)):
          X[i] = X[i]/255.0
      X.shape
[17]: (1099, 256, 256, 3)
[18]: x, x_test, y, y_test = train_test_split(X, Y, test_size = 0.2)
      x_train, x_val, y_train, y_val = train_test_split(x, y, test_size = 0.2)
      model = Sequential()
[19]: from tensorflow.keras.preprocessing.image import ImageDataGenerator
      # Define the ImageDataGenerator for data augmentation
      datagen = ImageDataGenerator(
          rotation_range=15,
                              # Rotate the image by up to 15 degrees
```

```
width_shift_range=0.1, # Shift the image horizontally by up to 10% of the
 \hookrightarrow width
    height_shift_range=0.1, # Shift the image vertically by up to 10% of the
 \hookrightarrowheight
    shear_range=0.1,
                           # Shear the image by up to 10 degrees
    zoom_range=0.1,
                           # Zoom in or out by up to 10%
    horizontal_flip=True,  # Flip the image horizontally
                           # Fill in missing pixels with the nearest value
    fill_mode='nearest'
)
# Fit the ImageDataGenerator on your training data
datagen.fit(x train)
# Define the number of augmented images to generate per original image
augmented_images_per_original = 6
```

```
[20]: model.add(Conv2D(128, (3, 3), padding = 'same', input_shape = X.shape[1:],
      ⇔activation = 'relu'))
      model.add(AvgPool2D(2,2))
      model.add(Conv2D(128, (3, 3), activation = 'relu', padding = 'same'))
      model.add(Conv2D(128, (3, 3), activation = 'relu', padding = 'same'))
      model.add(MaxPooling2D(2,2))
      model.add(Conv2D(128, (3, 3), activation = 'relu', padding = 'same'))
      model.add(Conv2D(128, (3, 3), activation = 'relu', padding = 'same'))
      model.add(MaxPooling2D(2,2))
      model.add(Conv2D(64, (3, 3), activation = 'relu', padding = 'same'))
      model.add(Conv2D(64, (3, 3), activation = 'relu', padding = 'same'))
      model.add(MaxPooling2D(2,2))
      model.add(Flatten())
      model.add(Dropout(0.2, seed = 12))
      model.add(Dense(3000, activation = 'relu'))
      model.add(Dense(1500, activation = 'relu'))
     model.add(Dense(3, activation = 'softmax'))
```

```
[21]: # Save the model
model.save("lung_cancer_detection_model.h5")
from tensorflow.keras.models import load_model

# Load the saved model
loaded_model = load_model("lung_cancer_detection_model.h5")
```

WARNING:absl:You are saving your model as an HDF5 file via `model.save()` or `keras.saving.save_model(model)`. This file format is considered legacy. We recommend using instead the native Keras format, e.g.
`model.save('my_model.keras')` or `keras.saving.save_model(model,

'my_model.keras')`.
WARNING:absl:No training configuration found in the save file, so the model was
not compiled. Compile it manually.

```
[22]: model.compile(loss = 'sparse_categorical_crossentropy', optimizer = 'adam', u emetrics = ['accuracy'])
model.summary()
```

Model: "sequential"

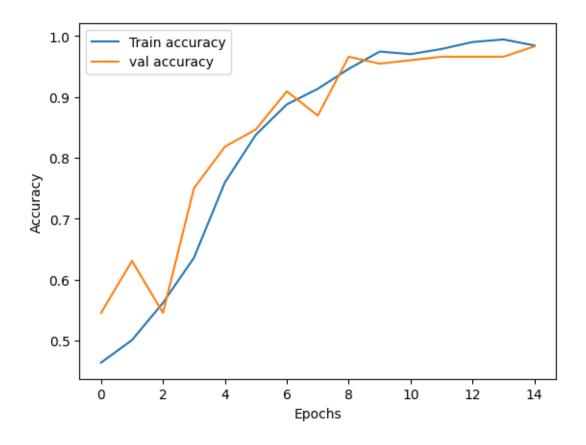
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 256, 256, 128)	3,584
average_pooling2d (AveragePooling2D)	(None, 128, 128, 128)	0
conv2d_1 (Conv2D)	(None, 128, 128, 128)	147,584
conv2d_2 (Conv2D)	(None, 128, 128, 128)	147,584
<pre>max_pooling2d (MaxPooling2D)</pre>	(None, 64, 64, 128)	0
conv2d_3 (Conv2D)	(None, 64, 64, 128)	147,584
conv2d_4 (Conv2D)	(None, 64, 64, 128)	147,584
<pre>max_pooling2d_1 (MaxPooling2D)</pre>	(None, 32, 32, 128)	0
conv2d_5 (Conv2D)	(None, 32, 32, 64)	73,792
conv2d_6 (Conv2D)	(None, 32, 32, 64)	36,928
<pre>max_pooling2d_2 (MaxPooling2D)</pre>	(None, 16, 16, 64)	0
flatten (Flatten)	(None, 16384)	0
dropout (Dropout)	(None, 16384)	0
dense (Dense)	(None, 3000)	49,155,000
dense_1 (Dense)	(None, 1500)	4,501,500
dense_2 (Dense)	(None, 3)	4,503

Trainable params: 54,365,643 (207.39 MB) Non-trainable params: 0 (0.00 B) [23]: # Import EarlyStopping callback from tensorflow.keras.callbacks import EarlyStopping # Define EarlyStopping callback early_stopping = EarlyStopping(monitor='val_loss', patience=3,__ →restore_best_weights=True) early_stopping = EarlyStopping(monitor='val_accuracy', patience=3,_ →restore_best_weights=True) [24]: history = model.fit(x_train, y_train, validation_data = (x_val, y_val),epochs =__ **→15)** Epoch 1/15 22/22 452s 20s/step accuracy: 0.4214 - loss: 1.1637 - val_accuracy: 0.5455 - val_loss: 0.8997 Epoch 2/15 22/22 456s 21s/step accuracy: 0.5077 - loss: 0.9337 - val_accuracy: 0.6307 - val_loss: 0.7950 Epoch 3/15 22/22 505s 21s/step accuracy: 0.5613 - loss: 0.8917 - val_accuracy: 0.5455 - val_loss: 0.8748 Epoch 4/15 22/22 502s 21s/step accuracy: 0.6137 - loss: 0.8134 - val_accuracy: 0.7500 - val_loss: 0.6595 Epoch 5/15 22/22 502s 21s/step accuracy: 0.7457 - loss: 0.6149 - val_accuracy: 0.8182 - val_loss: 0.4753 Epoch 6/15 22/22 489s 20s/step accuracy: 0.8187 - loss: 0.4122 - val_accuracy: 0.8466 - val_loss: 0.3643 Epoch 7/15 500s 20s/step accuracy: 0.9041 - loss: 0.2686 - val_accuracy: 0.9091 - val_loss: 0.3301 Epoch 8/15 452s 21s/step accuracy: 0.9029 - loss: 0.2420 - val_accuracy: 0.8693 - val_loss: 0.3528 Epoch 9/15 22/22 517s 21s/step accuracy: 0.9520 - loss: 0.1576 - val_accuracy: 0.9659 - val_loss: 0.1454 Epoch 10/15

Total params: 54,365,643 (207.39 MB)

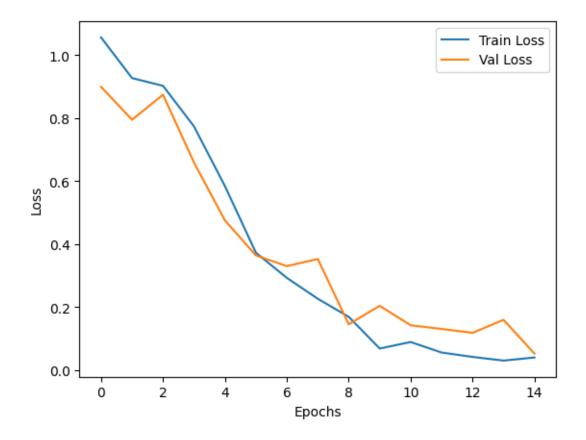
```
22/22
                       500s 21s/step -
     accuracy: 0.9697 - loss: 0.0853 - val_accuracy: 0.9545 - val_loss: 0.2041
     Epoch 11/15
     22/22
                       490s 21s/step -
     accuracy: 0.9759 - loss: 0.0669 - val_accuracy: 0.9602 - val_loss: 0.1421
     Epoch 12/15
                       514s 21s/step -
     22/22
     accuracy: 0.9869 - loss: 0.0443 - val_accuracy: 0.9659 - val_loss: 0.1305
     Epoch 13/15
                       465s 21s/step -
     22/22
     accuracy: 0.9889 - loss: 0.0463 - val accuracy: 0.9659 - val loss: 0.1182
     Epoch 14/15
     22/22
                       499s 21s/step -
     accuracy: 0.9973 - loss: 0.0183 - val_accuracy: 0.9659 - val_loss: 0.1595
     Epoch 15/15
     22/22
                       497s 21s/step -
     accuracy: 0.9843 - loss: 0.0393 - val_accuracy: 0.9830 - val_loss: 0.0521
[25]: result = model.predict(x_test)
     7/7
                     38s 5s/step
[26]: test_loss, test_accuracy = model.evaluate(x_test, y_test)
      print("Test Loss:", test_loss)
      print("Test Accuracy:", test_accuracy)
     7/7
                     38s 5s/step -
     accuracy: 0.9945 - loss: 0.0305
     Test Loss: 0.05536875128746033
     Test Accuracy: 0.9863636493682861
[27]: plt.plot(history.history['accuracy'], label = 'Train accuracy')
     plt.plot(history.history['val_accuracy'], label = 'val accuracy')
      plt.xlabel('Epochs')
      plt.ylabel('Accuracy')
      plt.legend(loc = 'best')
```

[27]: <matplotlib.legend.Legend at 0x7977a97132d0>



```
[28]: plt.plot(history.history['loss'], label = 'Train Loss')
   plt.plot(history.history['val_loss'], label = 'Val Loss')
   plt.xlabel('Epochs')
   plt.ylabel('Loss')
   plt.legend(loc = 'best')
```

[28]: <matplotlib.legend.Legend at 0x7977a96df550>



```
[30]: import cv2
      import numpy as np
      import matplotlib.pyplot as plt
      import os # Import the os module
      # Load the test image
      image_path = '/content/Lung Cancer/LungcancerDataSet/Data/valid/BenginCases/
       →Bengin case (112).jpg'
      # Check if the image file exists
      if not os.path.exists(image_path):
          print(f"Error: Image file not found at {image_path}")
      else:
          img = cv2.imread(image_path)
          # Check if the image was loaded successfully
          if img is None:
              print(f"Error: Could not load image from {image_path}")
          else:
              img = cv2.resize(img, (img_height, img_width))
```

```
# Expand dimensions to create a batch of size 1
       img = np.expand_dims(img, axis=0)
       # Make prediction
      prediction = model.predict(img)
       # Interpret prediction
      class_label = np.argmax(prediction)
      confidence = prediction[0][class_label]
      print("Predicted Class Label:", class_label)
      print("Confidence:", confidence)
       # Mapping class labels to categories
      class_labels_to_categories = {0: 'Bengin', 1: 'Malignant', 2: 'Normal'}
       # Display the predicted category
      predicted_category = class_labels_to_categories[class_label]
      print("Predicted Category:", predicted_category)
       # Read the image again for displaying (since the 'img' variable was \Box
→modified for prediction)
       img_display = cv2.imread(image_path)
      plt.imshow(cv2.cvtColor(img_display, cv2.COLOR_BGR2RGB))
      plt.axis('off')
      plt.title(predicted_category)
      plt.show()
```

1/1 1s 930ms/step

Predicted Class Label: 0

Confidence: 1.0

Predicted Category: Bengin





```
[32]: import cv2
     import numpy as np
     import matplotlib.pyplot as plt
     import os # Import the os module
     # Load the test image
     image_path = '/content/Lung Cancer/LungcancerDataSet/Data/valid/normal/Normal__
      img = cv2.imread(image_path)
     # Check if the image was loaded successfully
     if img is None:
         print(f"Error: Could not load image from {image_path}")
     else:
         img = cv2.resize(img, (img_height, img_width))
         # Expand dimensions to create a batch of size 1
         img = np.expand_dims(img, axis=0)
         # Make prediction
         prediction = model.predict(img)
```

```
# Interpret prediction
  class_label = np.argmax(prediction)
  confidence = prediction[0][class_label]
  print("Predicted Class Label:", class_label)
  print("Confidence:", confidence)
  # Mapping class labels to categories
  class_labels_to_categories = {0: 'Bengin', 1: 'Malignant', 2: 'Normal'}
  # Display the predicted category
  predicted_category = class_labels_to_categories[class_label]
  print("Predicted Category:", predicted_category)
  →modified for prediction)
  img_display = cv2.imread(image_path)
  plt.imshow(cv2.cvtColor(img_display, cv2.COLOR_BGR2RGB))
  plt.axis('off')
  plt.title(predicted_category)
  plt.show()
```

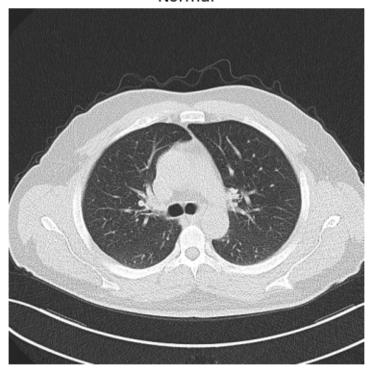
1/1 0s 495ms/step

Predicted Class Label: 2

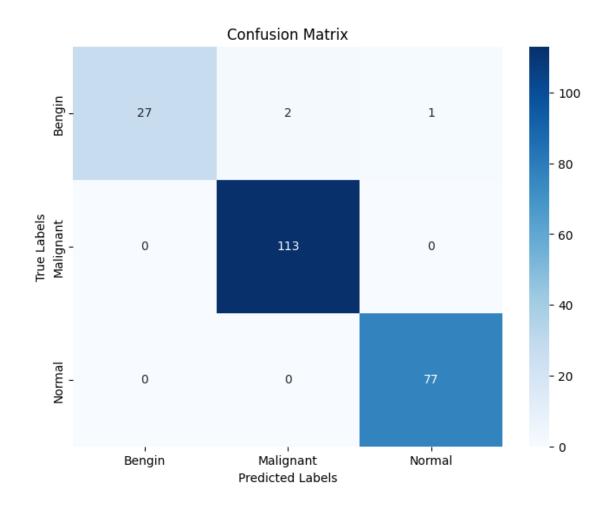
Confidence: 1.0

Predicted Category: Normal

Normal



```
[33]: from sklearn.metrics import confusion_matrix
      import seaborn as sns
      # Define true labels and predicted labels
      true_labels = y_test
      predicted_labels = np.argmax(result, axis=1)
      # Calculate confusion matrix
      cm = confusion_matrix(true_labels, predicted_labels)
      # Plot confusion matrix
      plt.figure(figsize=(8, 6))
      sns.heatmap(cm, annot=True, fmt='d', cmap='Blues',
                  xticklabels=class_labels_to_categories.values(),
                  yticklabels=class_labels_to_categories.values())
      plt.xlabel('Predicted Labels')
      plt.ylabel('True Labels')
      plt.title('Confusion Matrix')
      plt.show()
```



[]: