

# brain-tumor-detection

July 11, 2025

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[34]: # This Python 3 environment comes with many helpful analytics libraries
      ↪ installed
      # It is defined by the kaggle/python Docker image: https://github.com/kaggle/
      ↪ docker-python
      # For example, here's several helpful packages to load

import numpy as np # linear algebra
import pandas as pd # data processing, CSV file I/O (e.g. pd.read_csv)

# Input data files are available in the read-only "../input/" directory
# For example, running this (by clicking run or pressing Shift+Enter) will list
      ↪ all files under the input directory

import os
for dirname, _, filenames in os.walk('/kaggle/input'):
    for filename in filenames:
        print(os.path.join(dirname, filename))

# You can write up to 20GB to the current directory (/kaggle/working/) that
      ↪ gets preserved as output when you create a version using "Save & Run All"
# You can also write temporary files to /kaggle/temp/, but they won't be saved
      ↪ outside of the current session
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(67).jpg  
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```

```

[68]: import os
      os.environ['TF_CPP_MIN_LOG_LEVEL'] = '2'  # Suppresses INFO and WARNING logs
      ↪from TensorFlow

      import keras
      from keras.models import Sequential
      from keras.layers import Conv2D, Flatten, Dense, MaxPooling2D, Dropout
      from sklearn.metrics import accuracy_score

```

```

[70]: import os
      import cv2
      import numpy as np

      X_train = []
      Y_train = []
      image_size = 224
      labels = ['glioma_tumor', 'meningioma_tumor', 'no_tumor', 'pituitary_tumor']

      # Load training data
      for i in labels:

```

```

    folderPath = os.path.join('/kaggle/input/brain-tumor-classification-mri/
↪Training', i)
    for j in os.listdir(folderPath):
        img = cv2.imread(os.path.join(folderPath, j)) # fixed imread
        if img is not None:
            img = cv2.resize(img, (image_size, image_size))
            X_train.append(img)
            Y_train.append(i)

# Load testing data
for i in labels:
    folderPath = os.path.join('/kaggle/input/brain-tumor-classification-mri/
↪Testing', i)
    for j in os.listdir(folderPath):
        img = cv2.imread(os.path.join(folderPath, j)) # fixed imread
        if img is not None:
            img = cv2.resize(img, (image_size, image_size))
            X_train.append(img)
            Y_train.append(i)

X_train = np.array(X_train)
Y_train = np.array(Y_train)

```

```

[71]: import ipywidgets as widgets
import io
from PIL import Image
import tqdm
from sklearn.model_selection import train_test_split
import cv2
from sklearn.utils import shuffle
import tensorflow as tf

```

```
[ ]:
```

```

[72]: from sklearn.utils import shuffle

# Shuffle the dataset
X_train, Y_train = shuffle(X_train, Y_train, random_state=101)

# Check shape
print(X_train.shape)

```

```
(3264, 224, 224, 3)
```

```

[73]: from sklearn.model_selection import train_test_split

# Split the data

```

```
X_train, X_test, y_train, y_test = train_test_split(X_train, Y_train,
↳test_size=0.1, random_state=101)
```

```
# Optional: Check the shape
print("Training set:", X_train.shape)
print("Test set:", X_test.shape)
```

Training set: (2937, 224, 224, 3)

Test set: (327, 224, 224, 3)

```
[40]: print(y_train[:5])
```

```
['glioma_tumor' 'meningioma_tumor' 'meningioma_tumor' 'glioma_tumor'
 'pituitary_tumor']
```

```
[74]: # Define your label list
labels = ['glioma_tumor', 'meningioma_tumor', 'no_tumor', 'pituitary_tumor']
```

```
# Convert string labels to numeric only if they are still strings
if isinstance(y_train[0], str):
    y_train = [labels.index(i) for i in y_train]
    y_test = [labels.index(i) for i in y_test]
```

```
# One-hot encode
from tensorflow.keras.utils import to_categorical
```

```
Y_train = to_categorical(y_train, num_classes=len(labels))
Y_test = to_categorical(y_test, num_classes=len(labels))
```

```
[75]: model = Sequential()
model.add(Conv2D(32, (3,3), activation='relu', input_shape=(150,150,3)))
model.add(Conv2D(64, (3,3), activation='relu'))
model.add(MaxPooling2D(2,2))
model.add(Dropout(0.3))
model.add(Conv2D(64, (3,3), activation='relu'))
model.add(Conv2D(64, (3,3), activation='relu'))
model.add(Dropout(0.3))
model.add(MaxPooling2D(2,2))
model.add(Dropout(0.3))
model.add(Conv2D(120, (3,3), activation='relu'))
model.add(Conv2D(120, (3,3), activation='relu'))
model.add(Conv2D(120, (3,3), activation='relu'))
model.add(MaxPooling2D(2,2))
model.add(Dropout(0.3))
model.add(Conv2D(120, (3,3), activation='relu'))
model.add(Conv2D(256, (3,3), activation='relu'))
model.add(MaxPooling2D(2,2))
```

```

model.add(Dropout(0.3))
model.add(Flatten())
model.add(Dense(512,activation = 'relu'))
model.add(Dense(512,activation = 'relu'))
model.add(Dropout(0.3))
model.add(Dense(4,activation='softmax'))

```

```
[76]: model.summary()
```

Model: "sequential\_7"

Layer (type)	Output Shape	Param #
conv2d_39 (Conv2D)	(None, 148, 148, 32)	896
conv2d_40 (Conv2D)	(None, 146, 146, 64)	18,496
max_pooling2d_24 (MaxPooling2D)	(None, 73, 73, 64)	0
dropout_18 (Dropout)	(None, 73, 73, 64)	0
conv2d_41 (Conv2D)	(None, 71, 71, 64)	36,928
conv2d_42 (Conv2D)	(None, 69, 69, 64)	36,928
dropout_19 (Dropout)	(None, 69, 69, 64)	0
max_pooling2d_25 (MaxPooling2D)	(None, 34, 34, 64)	0
dropout_20 (Dropout)	(None, 34, 34, 64)	0
conv2d_43 (Conv2D)	(None, 32, 32, 120)	69,240
conv2d_44 (Conv2D)	(None, 30, 30, 120)	129,720
conv2d_45 (Conv2D)	(None, 28, 28, 120)	129,720
max_pooling2d_26 (MaxPooling2D)	(None, 14, 14, 120)	0
dropout_21 (Dropout)	(None, 14, 14, 120)	0
conv2d_46 (Conv2D)	(None, 12, 12, 120)	129,720
conv2d_47 (Conv2D)	(None, 10, 10, 256)	276,736
max_pooling2d_27 (MaxPooling2D)	(None, 5, 5, 256)	0

dropout_22 (Dropout)	(None, 5, 5, 256)	0
flatten_7 (Flatten)	(None, 6400)	0
dense_19 (Dense)	(None, 512)	3,277,312
dense_20 (Dense)	(None, 512)	262,656
dropout_23 (Dropout)	(None, 512)	0
dense_21 (Dense)	(None, 4)	2,052

Total params: 4,370,404 (16.67 MB)

Trainable params: 4,370,404 (16.67 MB)

Non-trainable params: 0 (0.00 B)

```
[44]: model.  
      ↪ compile(loss='categorical_crossentropy', optimizer='adam', metrics=['accuracy'])
```

```
[77]: import tensorflow as tf  
      from tensorflow.keras import layers, models  
  
      # Load training and validation datasets (update 'your_dataset_path')  
      train_ds = tf.keras.preprocessing.image_dataset_from_directory(  
          '/kaggle/input/brain-tumor-classification-mri/Training',  
          image_size=(128, 128),  
          batch_size=32,  
          label_mode='categorical'  
      )  
  
      val_ds = tf.keras.preprocessing.image_dataset_from_directory(  
          '/kaggle/input/brain-tumor-classification-mri/Training',  
          image_size=(128, 128),  
          batch_size=32,  
          label_mode='categorical'  
      )  
  
      # Define the model  
      model = models.Sequential([  
          layers.Rescaling(1./255, input_shape=(128, 128, 3)),  
          layers.Conv2D(32, 3, activation='relu'),
```

```

layers.MaxPooling2D(),

layers.Conv2D(64, 3, activation='relu'),
layers.MaxPooling2D(),

layers.Conv2D(128, 3, activation='relu'),
layers.MaxPooling2D(),

layers.Flatten(),
layers.Dense(128, activation='relu'),
layers.Dense(4, activation='softmax') # 4 output classes
])

# Compile the model
model.compile(
    optimizer='adam',
    loss='categorical_crossentropy',
    metrics=['accuracy']
)

# Train the model
history = model.fit(train_ds, validation_data=val_ds, epochs=20)

```

Found 2870 files belonging to 4 classes.

Found 2870 files belonging to 4 classes.

Epoch 1/20

90/90 8s 54ms/step -

accuracy: 0.4842 - loss: 1.1612 - val\_accuracy: 0.7540 - val\_loss: 0.6282

Epoch 2/20

90/90 3s 38ms/step -

accuracy: 0.7623 - loss: 0.5882 - val\_accuracy: 0.8794 - val\_loss: 0.3478

Epoch 3/20

90/90 3s 38ms/step -

accuracy: 0.8709 - loss: 0.3607 - val\_accuracy: 0.9233 - val\_loss: 0.2188

Epoch 4/20

90/90 4s 44ms/step -

accuracy: 0.9258 - loss: 0.2075 - val\_accuracy: 0.9411 - val\_loss: 0.1574

Epoch 5/20

90/90 3s 39ms/step -

accuracy: 0.9467 - loss: 0.1348 - val\_accuracy: 0.9746 - val\_loss: 0.0801

Epoch 6/20

90/90 4s 40ms/step -

accuracy: 0.9806 - loss: 0.0493 - val\_accuracy: 0.9756 - val\_loss: 0.0691

Epoch 7/20

90/90 3s 38ms/step -

accuracy: 0.9764 - loss: 0.0610 - val\_accuracy: 0.9829 - val\_loss: 0.0417

Epoch 8/20

```

90/90          3s 38ms/step -
accuracy: 0.9813 - loss: 0.0445 - val_accuracy: 0.9965 - val_loss: 0.0160
Epoch 9/20
90/90          3s 38ms/step -
accuracy: 0.9952 - loss: 0.0164 - val_accuracy: 0.9948 - val_loss: 0.0219
Epoch 10/20
90/90          3s 38ms/step -
accuracy: 0.9975 - loss: 0.0131 - val_accuracy: 0.9934 - val_loss: 0.0191
Epoch 11/20
90/90          4s 39ms/step -
accuracy: 0.9905 - loss: 0.0226 - val_accuracy: 0.9944 - val_loss: 0.0180
Epoch 12/20
90/90          4s 39ms/step -
accuracy: 0.9924 - loss: 0.0212 - val_accuracy: 0.9882 - val_loss: 0.0340
Epoch 13/20
90/90          4s 42ms/step -
accuracy: 0.9931 - loss: 0.0174 - val_accuracy: 0.9944 - val_loss: 0.0191
Epoch 14/20
90/90          3s 38ms/step -
accuracy: 0.9936 - loss: 0.0260 - val_accuracy: 0.9990 - val_loss: 0.0069
Epoch 15/20
90/90          3s 39ms/step -
accuracy: 0.9992 - loss: 0.0044 - val_accuracy: 0.9948 - val_loss: 0.0139
Epoch 16/20
90/90          3s 38ms/step -
accuracy: 0.9947 - loss: 0.0125 - val_accuracy: 0.9833 - val_loss: 0.0429
Epoch 17/20
90/90          3s 38ms/step -
accuracy: 0.9733 - loss: 0.0731 - val_accuracy: 0.9962 - val_loss: 0.0113
Epoch 18/20
90/90          3s 38ms/step -
accuracy: 0.9979 - loss: 0.0049 - val_accuracy: 0.9983 - val_loss: 0.0035
Epoch 19/20
90/90          3s 38ms/step -
accuracy: 1.0000 - loss: 5.3437e-04 - val_accuracy: 1.0000 - val_loss:
1.3829e-04
Epoch 20/20
90/90          3s 39ms/step -
accuracy: 1.0000 - loss: 9.9831e-05 - val_accuracy: 1.0000 - val_loss:
1.0170e-04

```

```

[78]: print(type(X_train))
      print(X_train[:5])  # or df.head() if it's a DataFrame

```

```

<class 'numpy.ndarray'>
[[[ 0  0  0]
  [ 0  0  0]
  [ 0  0  0]

```

```

...
[ 0 0 0]
[ 0 0 0]
[ 0 0 0]]

[[ 0 0 0]
 [ 0 0 0]
 [ 0 0 0]

...
[ 0 0 0]
[ 0 0 0]
[ 0 0 0]]

[[ 0 0 0]
 [ 0 0 0]
 [ 0 0 0]

...
[ 0 0 0]
[ 0 0 0]
[ 0 0 0]]

...

[[ 0 0 0]
 [ 0 0 0]
 [ 0 0 0]

...
[ 0 0 0]
[ 0 0 0]
[ 0 0 0]]

[[ 0 0 0]
 [ 0 0 0]
 [ 0 0 0]

...
[ 0 0 0]
[ 0 0 0]
[ 0 0 0]]]

```



```

[[ 0  0  0]
 [ 0  0  0]
 [ 0  0  0]
...
 [ 0  0  0]
 [ 0  0  0]
 [ 0  0  0]]

```

```

[[ 0  0  0]
 [ 0  0  0]
 [ 0  0  0]
...
 [ 0  0  0]
 [ 0  0  0]
 [ 0  0  0]]

```

```

[[ 0  0  0]
 [ 0  0  0]
 [ 0  0  0]
...
 [ 0  0  0]
 [ 0  0  0]
 [ 0  0  0]]

```

...

```

[[ 0  0  0]
 [ 0  0  0]
 [ 0  0  0]
...
 [ 0  0  0]
 [ 0  0  0]
 [ 0  0  0]]

```

```

[[ 0  0  0]
 [ 0  0  0]
 [ 0  0  0]
...
 [ 0  0  0]
 [ 0  0  0]
 [ 0  0  0]]

```

```

[[ 0  0  0]
 [ 0  0  0]
 [ 0  0  0]
...
 [ 0  0  0]
 [ 0  0  0]

```

```

[ 0  0  0]]]

[[[ 23  23  23]
  [ 25  25  25]
  [ 28  28  28]
  ...
  [ 29  29  29]
  [ 17  17  17]
  [149 149 149]]

[[ 23  23  23]
 [ 25  25  25]
 [ 28  28  28]
  ...
 [ 28  28  28]
 [ 17  17  17]
 [149 149 149]]

[[ 23  23  23]
 [ 25  25  25]
 [ 28  28  28]
  ...
 [ 28  28  28]
 [ 16  16  16]
 [148 148 148]]

...

[[ 24  24  24]
 [ 24  24  24]
 [ 24  24  24]
  ...
 [ 28  28  28]
 [ 12  12  12]
 [152 152 152]]

[[ 20  20  20]
 [ 25  25  25]
 [ 29  29  29]
  ...
 [ 26  26  26]
 [  8   8   8]
 [152 152 152]]

[[ 20  20  20]
 [ 25  25  25]
 [ 29  29  29]

```

```

...
[ 26  26  26]
[  8   8   8]
[152 152 152]]]

```

```

[[[  0   0   0]
  [  0   0   0]
  [  0   0   0]
...
  [  0   0   0]
  [  0   0   0]
  [  3   3   3]]]

```

```

[[[  0   0   0]
  [  0   0   0]
  [  0   0   0]
...
  [  0   0   0]
  [  0   0   0]
  [  3   3   3]]]

```

```

[[[  0   0   0]
  [  0   0   0]
  [  0   0   0]
...
  [  0   0   0]
  [  0   0   0]
  [  2   2   2]]]

```

```

...
[[[  0   0   0]
  [  0   0   0]
  [  0   0   0]
...
  [  0   0   0]
  [  0   0   0]
  [  2   2   2]]]

```

```

[[[  0   0   0]
  [  0   0   0]
  [  0   0   0]
...
  [  0   0   0]
  [  0   0   0]
  [  3   3   3]]]

```

```

[[ 0  0  0]
 [ 0  0  0]
 [ 0  0  0]
...
 [ 0  0  0]
 [ 0  0  0]
 [ 3  3  3]]]

```

```

[[[ 0  0  0]
   [ 0  0  0]
   [ 0  0  0]
...
   [ 0  0  0]
   [ 0  0  0]
   [ 0  0  0]]]

```

```

[[ 0  0  0]
 [ 0  0  0]
 [ 0  0  0]
...
 [ 2  2  2]
 [ 2  2  2]
 [ 2  2  2]]]

```

```

[[ 1  1  1]
 [ 1  1  1]
 [ 1  1  1]
...
 [ 3  3  3]
 [ 3  3  3]
 [ 3  3  3]]]

```

```

...
[[ 7  7  7]
 [10 10 10]
 [ 8  8  8]
...
 [ 4  4  4]
 [ 4  4  4]
 [ 4  4  4]]]

```

```

[[ 1  1  1]
 [ 2  2  2]
 [ 2  2  2]
...
 [ 3  3  3]

```

```

[ 3  3  3]
[ 3  3  3]]

[[ 0  0  0]
 [ 0  0  0]
 [ 0  0  0]
 ...
 [ 1  1  1]
 [ 1  1  1]
 [ 1  1  1]]]]

```

```

[79]: train_ds = tf.keras.preprocessing.image_dataset_from_directory(
        '/kaggle/input/brain-tumor-classification-mri/Training', # correct string
        validation_split=0.1,
        subset='training',
        seed=123,
        image_size=(128, 128),
        batch_size=32,
        label_mode='categorical'
    )

    val_ds = tf.keras.preprocessing.image_dataset_from_directory(
        '/kaggle/input/brain-tumor-classification-mri/Training',
        validation_split=0.1,
        subset='validation',
        seed=123,
        image_size=(128, 128),
        batch_size=32,
        label_mode='categorical'
    )

```

```

Found 2870 files belonging to 4 classes.
Using 2583 files for training.
Found 2870 files belonging to 4 classes.
Using 287 files for validation.

```

```

[80]: import matplotlib.pyplot as plt
import seaborn as sns

```

```

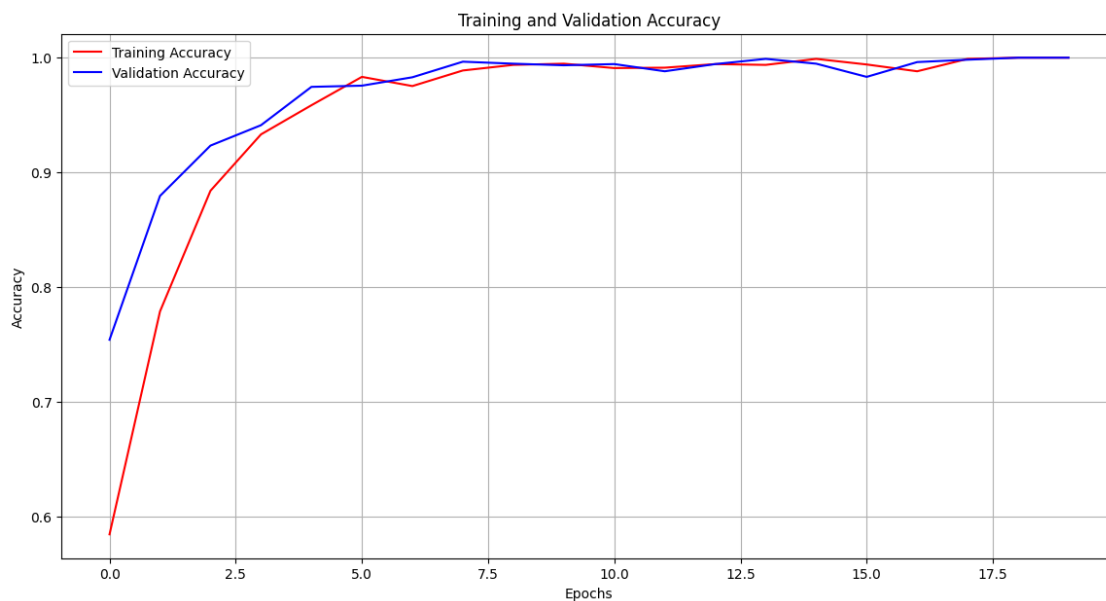
[81]: # Save the trained model
import matplotlib.pyplot as plt

# Plotting accuracy
acc = history.history['accuracy']
val_acc = history.history['val_accuracy']
epochs = range(len(acc))

```

```
fig = plt.figure(figsize=(14, 7))

plt.plot(epochs, acc, 'r', label='Training Accuracy')
plt.plot(epochs, val_acc, 'b', label='Validation Accuracy') # Changed to 'b'
    ↪ for better distinction
plt.title('Training and Validation Accuracy')
plt.xlabel('Epochs')
plt.ylabel('Accuracy')
plt.legend(loc='upper left')
plt.grid(True)
plt.show()
```



```
[83]: import matplotlib.pyplot
```

```
[94]: import cv2
import numpy as np

img = cv2.imread('/kaggle/input/brain-tumor-classification-mri/Training/
    ↪ pituitary_tumor/p (101).jpg')
img = cv2.resize(img, (150, 150))
img_array = np.array(img)
print(img_array.shape)
```

```
(150, 150, 3)
```

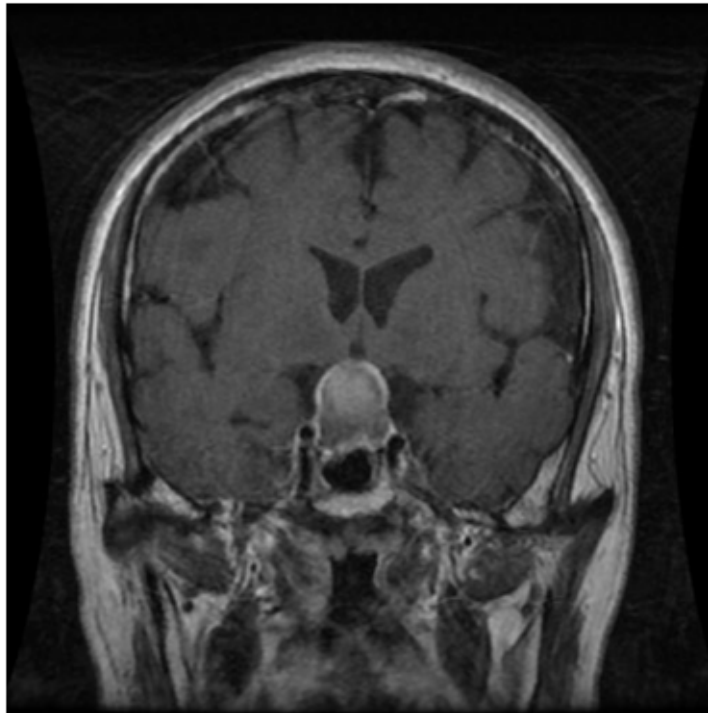
```
[86]: img_array =img_array.reshape(1,150,150,3)
img_array.shape
```

```
[86]: (1, 150, 150, 3)
```

```
[95]: from tensorflow.keras.preprocessing import image
import matplotlib.pyplot as plt

# Load the image
img = image.load_img('/kaggle/input/brain-tumor-classification-mri/Training/
↳pituitary_tumor/p (101).jpg')

# Display it
plt.imshow(img)
plt.axis('off') # Optional: hides the axis
plt.show()
```



```
[96]: from tensorflow.keras.preprocessing import image
import numpy as np
import matplotlib.pyplot as plt

from tensorflow.keras.models import load_model
from tensorflow.keras.preprocessing import image
import numpy as np
```

```

# Load trained model
model = load_model('braintumor.h5')

# Step 1: Load and resize image to match model input
img_path = ('/kaggle/input/brain-tumor-classification-mri/Training/
↳pituitary_tumor/p (101).jpg')
img = image.load_img(img_path, target_size=(128, 128))

# Step 2: Convert image to array and normalize
img_array = image.img_to_array(img) / 255.0
img_array = np.expand_dims(img_array, axis=0)

# Step 3: Predict
print("Model input shape:", model.input_shape)
print("Image input shape:", img_array.shape)

a = model.predict(img_array)
indices = a.argmax()

# Step 4: Print class
labels = ['glioma_tumor', 'meningioma_tumor', 'no_tumor', 'pituitary_tumor']
print("Predicted class:", labels[indices])

```

```

Model input shape: (None, 128, 128, 3)
Image input shape: (1, 128, 128, 3)
1/1          0s 471ms/step
Predicted class: pituitary_tumor

```

```
[97]: model.save('/kaggle/working/braintumor.h5')
```

```
[90]: import os
from collections import Counter

train_dir = "/kaggle/input/brain-tumor-classification-mri/Training"
classes = os.listdir(train_dir)
class_counts = {cls: len(os.listdir(os.path.join(train_dir, cls))) for cls in
↳classes}
print(class_counts)

```

```
{'no_tumor': 395, 'pituitary_tumor': 827, 'meningioma_tumor': 822,
'glioma_tumor': 826}
```

```
[91]: print("Raw prediction:", a)
print("Predicted index:", indices)
print("Predicted class:", labels[indices])

```

```

Raw prediction: [[0.27609774 0.25302875 0.19471678 0.27615672]]
Predicted index: 3

```



Predicted class: pituitary\_tumor

```
[99]: for i, score in enumerate(a[0]):  
      print(f"{labels[i]}: {score:.4f}")
```

```
glioma_tumor: 0.2761  
meningioma_tumor: 0.2530  
no_tumor: 0.1947  
pituitary_tumor: 0.2762
```

```
[98]: plt.imshow(img)  
      plt.axis('off')  
      plt.title(f"Predicted: {labels[indices]}")  
      plt.show()
```

Predicted: pituitary\_tumor

