```
!pip install streamlit
     Collecting streamlit
       Downloading streamlit-1.34.0-py2.py3-none-any.whl (8.5 MB)
                                                   - 8.5/8.5 MB 22.9 MB/s eta 0:00:00
     Requirement already satisfied: altair<6,>=4.0 in /usr/local/lib/python3.10/dist-
     Requirement already satisfied: blinker<2,>=1.0.0 in /usr/lib/python3/dist-packag
     Requirement already satisfied: cachetools<6,>=4.0 in /usr/local/lib/python3.10/\epsilon
     Requirement already satisfied: click<9,>=7.0 in /usr/local/lib/python3.10/dist-r
     Requirement already satisfied: numpy<2,>=1.19.3 in /usr/local/lib/python3.10/dis
     Requirement already satisfied: packaging<25,>=16.8 in /usr/local/lib/python3.10/
     Requirement already satisfied: pandas<3,>=1.3.0 in /usr/local/lib/python3.10/dis
     Requirement already satisfied: pillow<11,>=7.1.0 in /usr/local/lib/python3.10/di
     Requirement already satisfied: protobuf<5,>=3.20 in /usr/local/lib/python3.10/di
     Requirement already satisfied: pyarrow>=7.0 in /usr/local/lib/python3.10/dist-pa
     Requirement already satisfied: requests<3,>=2.27 in /usr/local/lib/python3.10/di
     Requirement already satisfied: rich<14,>=10.14.0 in /usr/local/lib/python3.10/di
     Requirement already satisfied: tenacity<9,>=8.1.0 in /usr/local/lib/python3.10/c
     Requirement already satisfied: toml<2,>=0.10.1 in /usr/local/lib/python3.10/dist
     Requirement already satisfied: typing-extensions<5,>=4.3.0 in /usr/local/lib/pyt
     Collecting gitpython!=3.1.19,<4,>=3.0.7 (from streamlit)
       Downloading GitPython-3.1.43-py3-none-any.whl (207 kB)
                                                   - 207.3/207.3 kB 18.9 MB/s eta 0:00
     Collecting pydeck<1,>=0.8.0b4 (from streamlit)
       Downloading pydeck-0.9.0-py2.py3-none-any.whl (6.9 MB)
                                                   - 6.9/6.9 MB 44.7 MB/s eta 0:00:00
     Requirement already satisfied: tornado<7,>=6.0.3 in /usr/local/lib/python3.10/di
     Collecting watchdog>=2.1.5 (from streamlit)
       Downloading watchdog-4.0.0-py3-none-manylinux2014 x86 64.whl (82 kB)
                                                   - 83.0/83.0 kB 9.8 MB/s eta 0:00:00
     Requirement already satisfied: entrypoints in /usr/local/lib/python3.10/dist-pac
     Requirement already satisfied: jinja2 in /usr/local/lib/python3.10/dist-packages
     Requirement already satisfied: jsonschema>=3.0 in /usr/local/lib/python3.10/dist
     Requirement already satisfied: toolz in /usr/local/lib/python3.10/dist-packages
     Collecting gitdb<5,>=4.0.1 (from gitpython!=3.1.19,<4,>=3.0.7->streamlit)
       Downloading gitdb-4.0.11-py3-none-any.whl (62 kB)
                                                   62.7/62.7 kB 8.0 MB/s eta 0:00:00
     Requirement already satisfied: python-dateutil>=2.8.2 in /usr/local/lib/python3.
     Requirement already satisfied: pytz>=2020.1 in /usr/local/lib/python3.10/dist-pa
     Requirement already satisfied: tzdata>=2022.1 in /usr/local/lib/python3.10/dist-
     Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/pythor
     Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/dist-pa
     Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.10/c
     Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.10/c
     Requirement already satisfied: markdown-it-py>=2.2.0 in /usr/local/lib/python3.1
     Requirement already satisfied: pygments<3.0.0,>=2.13.0 in /usr/local/lib/python3
     Collecting smmap<6,>=3.0.1 (from gitdb<5,>=4.0.1->gitpython!=3.1.19,<4,>=3.0.7->
       Downloading smmap-5.0.1-py3-none-any.whl (24 kB)
     Requirement already satisfied: MarkupSafe>=2.0 in /usr/local/lib/python3.10/dist
     Requirement already satisfied: attrs>=22.2.0 in /usr/local/lib/python3.10/dist-r
     Requirement already satisfied: jsonschema-specifications>=2023.03.6 in /usr/loca
     Requirement already satisfied: referencing>=0.28.4 in /usr/local/lib/python3.10/
     Requirement already satisfied: rpds-py>=0.7.1 in /usr/local/lib/python3.10/dist-
     Requirement already satisfied: mdurl \sim = 0.1 in /usr/local/lib/python3.10/dist-pack
     Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.10/dist-packag
     Installing collected packages: watchdog, smmap, pydeck, gitdb, gitpython, stream
     Successfully installed gitdb-4.0.11 gitpython-3.1.43 pydeck-0.9.0 smmap-5.0.1 st
!wget -q -0 - ipv4.icanhazip.com
     34.16.167.231
! streamlit run main.py & npx localtunnel --port 8501
     Collecting usage statistics. To deactivate, set browser.gatherUsageStats to fals
       You can now view your Streamlit app in your browser.
       Network URL: http://172.28.0.12:8501
       External URL: http://34.16.167.231:8501
     npx: installed 22 in 5.024s
     your url is: <a href="https://cute-ants-add.loca.lt">https://cute-ants-add.loca.lt</a>
     2024-05-10 07:47:38.288606: E external/local xla/xla/stream executor/cuda/cuda c
     2024-05-10 07:47:38.288695: E external/local_xla/xla/stream_executor/cuda/cuda_t
```

```
1 import streamlit as st
 2 import tensorflow as tf
 3 import numpy as np
 5 # Tensorflow Model Prediction
 6 def model_prediction(test_image):
      model = tf.keras.models.load_model("/content
       image = tf.keras.preprocessing.image.load_im
       input_arr = tf.keras.preprocessing.image.img
       input_arr = np.array([input_arr]) # Convert
11
      predictions = model.predict(input_arr)
       return np.argmax(predictions) # Return inde
13
14 # Sidebar
15 st.sidebar.title("Dashboard")
16 app_mode = "Prediction" # Setting default page
18 # Main Page
19 if app_mode == "Prediction":
      st.header("Model Prediction")
       test_image = st.file_uploader("Choose an Ima
21
       if st.button("Show Image") and test_image is
22
23
           st.image(test_image, width=200, use_colu
24
       # Predict button
25
       if st.button("Predict") and test_image is no
26
           st.write("Our Prediction")
          result_index = model_prediction(test_ima
27
28
           # Reading Labels
29
           with open("/content/labels.txt") as f:
30
               content = f.readlines()
31
           label = [i.strip() for i in content]
32
           st.success("Model predicts it's a {}".fo
33
```

2024-05-10 07:47:38.294530: E external/local\_xla/xla/stream\_executor/cuda/cuda\_t 2024-05-10 07:47:38.321986: I tensorflow/core/platform/cpu\_feature\_guard.cc:182
To enable the following instructions: AVX2 FMA, in other operations, rebuild Ter 2024-05-10 07:47:40.325981: W tensorflow/compiler/tf2tensorrt/utils/py\_utils.cc:

