**Prediction Images**

# ── Cargar la lista oficial de etiquetas / Upload the official list of labels ──────────────────────────────

import tensorflow as tf, tensorflow\_hub as hub, numpy as np, io, requests

from PIL import Image

labels\_url = "https://storage.googleapis.com/download.tensorflow.org/data/ImageNetLabels.txt"

labels\_path = tf.keras.utils.get\_file("ImageNetLabels.txt", labels\_url)

with open(labels\_path, "r") as f:

    labels = f.read().splitlines()

# ── Subir imagen desde tu ordenador / Upload image from your computer ───────────────────────────────────

from google.colab import files

uploaded = files.upload()

filename = next(iter(uploaded))

img = Image.open(io.BytesIO(uploaded[filename])).convert("RGB").resize((224, 224))

x = np.expand\_dims(np.array(img) / 255.0, 0)

# ── Cargar modelo MobileNet V2 / Load MobileNet V2 Model────────────────────────────────────────

model = hub.KerasLayer(

    "https://tfhub.dev/google/imagenet/mobilenet\_v2\_100\_224/classification/5"

)

logits = model(x).numpy()[0]

top5 = logits.argsort()[-5:][::-1]       # índices de las 5 mayores probabilidades / TOP 5 highest probabilities

print("Top-5 predicciones:")

for idx in top5:

    print(f"  {idx:4d} – {labels[idx]} – prob={logits[idx]:.3f}")