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import numpy as np
import sqlite3
from keras.models import load_model
from keras.utils import load_img,img_to_array

def predict(filepath,genus):
conn = sqlite3.connect("Species_data.db")
model = load_model(models(genus))
 img = load_img(filepath,target_size=(229,229))
 x = img_to_array(img)
 x = np.expand_dims(x,axis=0)
 pred = np.argmax(model.predict(x))
 cursor = conn.execute(f'''SELECT GENUS,CONTENT FROM SPECIESDB WHERE
SPECIES=="{genus}" AND ID=="{pred}"''')
 val = cursor.fetchall()[0]
genus_value = val[0]
content = val[1]
 return [genus_value,content]

def models(classes):
 if classes == "Animals":
       return 'models/animals.h5
elif classes == "Birds":
       return 'models/birds.h5
elif classes == "Leaves":
      return 'models/leaves.h5
elif classes == "Flowers"
      return 'models/flowers.h5
elif classes == "Insects"
      return 'models/insects.h5
elif classes == "Sea Animals":
      return 'models/sea.h5'
```