Skill9

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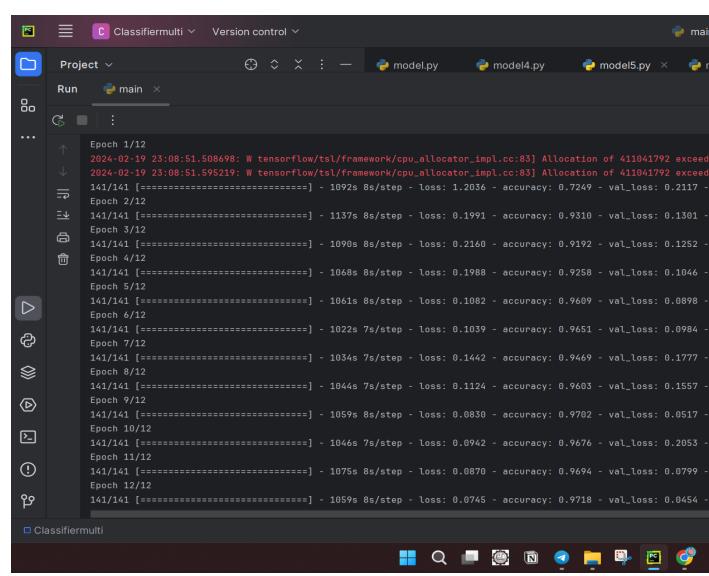
Main.py

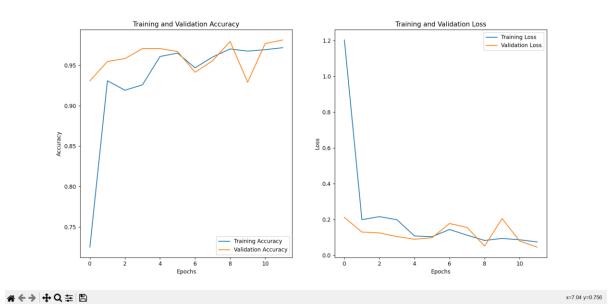
```
import numpy as np
import model3 as mc
train directory =
valid directory =
cloud directory = r'C:\Users\dell\PycharmProjex\dlSkill\Skill\data\cloudy'
cloud train directory =
cloud valid directory =
water directory = r'C:\Users\dell\PycharmProjex\dlSkill\Skill\data\water'
green directory =
r'C:\Users\dell\PycharmProjex\dlSkill\Skill\qenData\train\qreen'
r'C:\Users\dell\PycharmProjex\dlSkill\Skill\qenData\valid\qreen'
desert directory = r'C:\Users\dell\PycharmProjex\dlSkill\Skill\data\desert'
cloud image files = [f for f in os.listdir(cloud directory) if
water image files = [f for f in os.listdir(water directory) if
desert image files = [f for f in os.listdir(desert directory) if
green image files = [f for f in os.listdir(green directory) if
```

```
os.makedirs(valid_directory, exist_ok=True)
import os
import matplotlib.pyplot as plt
from tensorflow.keras.preprocessing.image import ImageDataGenerator
from tensorflow.keras.layers import Conv2D, MaxPooling2D, Flatten, Dense,
BatchNormalization, Dropout
valid directory =
train_datagen = ImageDataGenerator(
batch size = 32
train generator = train datagen.flow from directory(
    shuffle=False
mc2=mc.Modelsc()
model2=mc2.cnn vgg()
model2.summary()
```

```
history = model2.fit(
    train_generator,
    epochs=epochs,
plt.figure(figsize=(12, 4))
plt.subplot(1, 2, 1)
plt.plot(history.history['accuracy'], label='Training Accuracy')
plt.plot(history.history['val_accuracy'], label='Validation Accuracy')
plt.title('Training and Validation Accuracy')
plt.xlabel('Epochs')
plt.ylabel('Accuracy')
plt.legend()
plt.subplot(1, 2, 2)
plt.plot(history.history['loss'], label='Training Loss')
plt.plot(history.history['val_loss'], label='Validation Loss')
plt.title('Training and Validation Loss')
plt.xlabel('Epochs')
plt.ylabel('Loss')
plt.legend()
plt.show()
```

model.py





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