Auto saved at 13:01:05

```
1 import tensorflow as tf
 2 from tensorflow.keras.preprocessing.image import ImageDataGenerator
3 from tensorflow.keras.applications import MobileNetV2
4 from tensorflow.keras import layers, models
8 data_dir = 'poultry_diseases_dataset'
1 \text{ img_size} = 224
2 batch_size = 16
5 datagen = ImageDataGenerator(validation_split=0.2, rescale=1./255)
7 train_data = datagen.flow_from_directory(
      data_dir,
      target_size=(img_size, img_size),
      batch_size=batch_size,
      class_mode='categorical',
      subset='training'
5 val_data = datagen.flow_from_directory(
      data_dir,
      target_size=(img_size, img_size),
      batch_size=batch_size,
      class_mode='categorical',
      subset='validation'
34 base_model = MobileNetV2(input_shape=(img_size, img_size, 3), include_top=False,
5 weights='imagenet')
86 base_model.trainable = False # Freeze base model
9 model = models.Sequential([
      base_model,
      layers.GlobalAveragePooling2D(),
      layers.Dense(128, activation='relu'),
      layers.Dropout(0.3),
      layers.Dense(train_data.num_classes, activation='softmax')
48 model.compile(optimizer='adam', loss='categorical_crossentropy', metrics=
49 ['accuracy'])
2 model.fit(train_data, validation_data=val_data, epochs=5)
5 model.save("poultry_disease_classifier.h5")
```

## **Compile Result**

```
Traceback (most recent call last):
File "/data/user/0/com.kvassyu.coding.py/fi
les/default.py", line 1, in <module>
    import tensorflow as tf
ModuleNotFoundError: No module named 'tensorf
[Process completed (code 1) - press Enter]
```