```
from google.colab import drive
drive.mount('/content/drive')
     Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force remount=True).
import os
import cv2
import numpy as np
import tensorflow as tf
from tensorflow.keras.preprocessing.image import ImageDataGenerator
from tensorflow.keras.models import Sequential
from tensorflow.keras.layers import Conv2D, MaxPooling2D, Flatten, Dense
left_dir = '/content/drive/MyDrive/CS543/project/left'
right_dir = '/content/drive/MyDrive/CS543/project/right'
not_active_dir = '/content/drive/MyDrive/CS543/project/not_active'
IMAGE_WIDTH, IMAGE_HEIGHT = 128, 128
BATCH SIZE = 32
train datagen = ImageDataGenerator(
    rescale=1.0/255.
    shear_range=0.2,
    zoom range=0.2,
   horizontal_flip=True,
    validation split=0.2
train_generator = train_datagen.flow_from_directory(
    '/content/drive/MyDrive/CS543/project',
    target_size=(IMAGE_WIDTH, IMAGE_HEIGHT),
    batch size=BATCH SIZE,
    class_mode='categorical',
    subset='training'
validation_generator = train_datagen.flow_from_directory(
    '/content/drive/MyDrive/CS543/project',
    target_size=(IMAGE_WIDTH, IMAGE_HEIGHT),
    batch_size=BATCH_SIZE,
    class_mode='categorical',
    subset='validation'
model = Sequential()
model.add(Conv2D(32, (3, 3), input_shape=(IMAGE_WIDTH, IMAGE_HEIGHT, 3), activation='relu'))
model.add(MaxPooling2D(pool_size=(2, 2)))
model.add(Conv2D(64, (3, 3), activation='relu'))
model.add(MaxPooling2D(pool_size=(2, 2)))
model.add(Flatten())
model.add(Dense(64, activation='relu'))
model.add(Dense(3, activation='softmax'))
model.compile(optimizer='adam', loss='categorical_crossentropy', metrics=['accuracy'])
history = model.fit(
    train_generator,
    stens per enoch=train generator.samples // BATCH SIZE.
```

tf.__version__

epochs=4

validation_data=validation_generator,

validation steps=validation generator.samples // BATCH SIZE,