Project development Phase – Sprint 3

Compile The Model

model.compile(loss='categorical_crossentropy', optimizer='adam', metrics=['accuracy'])

Fit And Save The Model

model.fit_generator(x_train, steps_per_epoch=24, epochs=10, validation_data=x_test, validation_steps=40)

model.save('aslpng1.h5')

Load The Test Image, Pre-Process It And Predict

```
from skimage.transform import resize
def detect(frame):
  img =resize(frame,(64,64,1))
  img = np.expand_dims(img,axis=0)
  if(np.max(img)>1):
    img = img/255.0
    prediction =model.predict(img)
    print(prediction)
    prediction = model.predict_classes(img)
    print(prediction)
frame=cv2.imread(r"D:\\Nivetha\\Smart Bridge\\My_project\\conversation engine for deaf
and dumb\\Dataset\\test_set\\A\\2.png")
```