Build A Flask Application

Duration: 0.5 Hrs

Skill Tags:

Step 1: Load the required packages

```
import numpy as np
import cv2
import os
from keras.models import load_model
from flask import Flask, render_template, Response
import tensorflow as tf
from gtts import gTTS #to convert text to speech
global graph
global writer
from skimage.transform import resize
```

Step 2: Initialize graph, load the model, initialize the flask app and load the video

Graph element is required to work with tensorflow. So, graph element is created explicitly.

```
graph = tf.get_default_graph()
writer = None

model = load_model('aslpng1.h5')

vals = ['A', 'B','C','D','E','F','G','H','I']

app = Flask(__name__)

print("[INFO] accessing video stream...")
vs = cv2.VideoCapture(0) #triggers the local camera

pred=""
```

Step 3: Configure the home page

```
@app.route('/')
def index():
    return render_template('index.html')

```

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