

**Hosting:** To check the success prediction of various projects live, we have built a python service using flask which will host a website on which we can check if the kickstarter project will be successful or not

The main part of the code is here

```
@app.route("/", methods=['GET', 'POST']) ## Flask has direct functions to program routes of the web app
def hello():
    form = ReusableForm(request.form)

    if request.method == 'POST': ## Here we retrieve all inputs from the form
        title = request.form['title']
        description = request.form['description']
        category = request.form['category']
        subcategory = request.form['subcategory']
        state = request.form['state']
        goal = request.form['goal']
        updates = request.form['updates']
        duration = request.form['duration']
        level = request.form['level']
        name = request.form['name']
        location = request.form['location']
        email = request.form['email']

        if form.validate():
            data = {'updates': [int(updates)], 'subcategory': [int(subcategory)], 'state': [int(state)], 'goal': [float(goal)], 'levels': [int(level)],
                    'duration': [float(duration)]}
            x_tst = pd.DataFrame(data) ## We make a dataframe of all needed inputs to be put in the training
            clf = load("FINAL_MODEL.joblib") ## This is the trained model
            y_pred = clf.predict(x_tst)
            data_csv = [[title, description, category, subcategory, state, goal, updates, duration, level, y_pred]]

            with open('data_storage.csv', 'a') as f: ## This is a csv writer that appends all input data to be checked later
                writer = csv.writer(f)
                writer.writerow(data_csv)
                flash('Csv file written')
            f.close()
```

Here we can see that the first line “@app.route” defines the link and all the methods that can happen on that page.

We can see contents of the code, even though this isn’t the complete code, this contains the main functionality

All the “request.form” functions call all the values of the variables defined on the main index form.

We take these values and after validation it puts them in a dataframe. This is done and input into the trained model “FINAL\_MODEL.joblib”

The output of the model is y\_pred which tells us if the input data of the project will be successful or not, after that the data is recorded in a csv file locally(not downloadable). This done to keep record of new data entered.

## Enter Your Kickstarter Details:

Project Title:

Description:

Select Category:

Select Sub-Category:

Select State:

Goal(Enter as number without commas):

Updates(From 0-100 only):

Duration(Enter in days):

Enter Number of Levels(Max 15):

## Enter Your Details:

Name:

Email:

State:

This is the landing page that loads on running the flask server. You can see the various fields needed to check if the project is successful or no.

The last three fields are just for user details, it is unrelated to prediction.

This is how the success message looks.

**Message:** Csv file written

**Message:** Congratulations, Your project might be successful with 80% accuracy