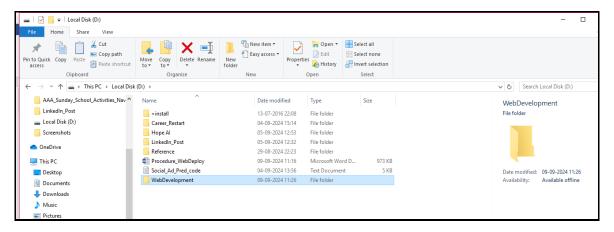
Django Web Development Machine Learning Project

Step 1: Creating Virtual Environment

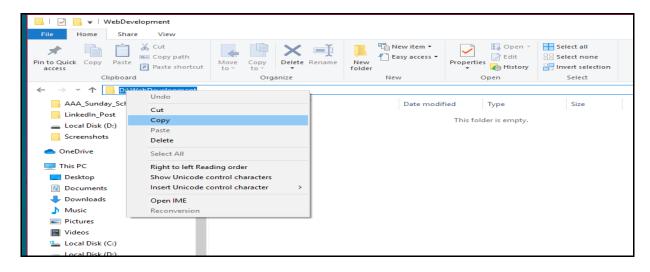


Step 2: Create a New Folder in the local disk.

Select Local Disk (D:) > New Folder (eg: WebDevelopment)



Step 3: Copy the Folder path



Step 4: In the Anaconda command prompt, paste the copied folder path.



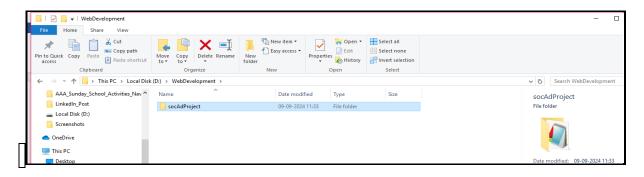
Step 5: Create a project folder inside the newly created folder using the following command,

> django-admin startproject socAdProject

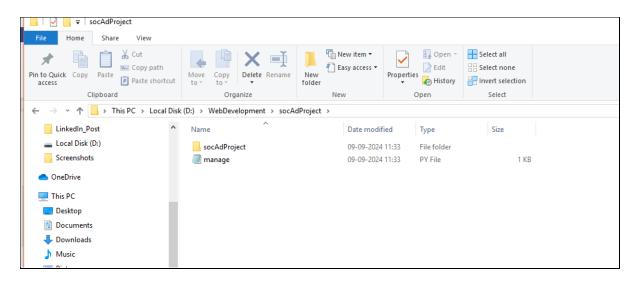
```
Anaconda Prompt

(base) C:\Users\Admin>activate Web
(Web) C:\Users\Admin>d:
(Web) D:\vcd D:\WebDevelopment
(Web) D:\WebDevelopment>django-admin startproject socAdProject
```

Step 6: A folder for the project (eg. socAdProject) is created inside the newly created folder.

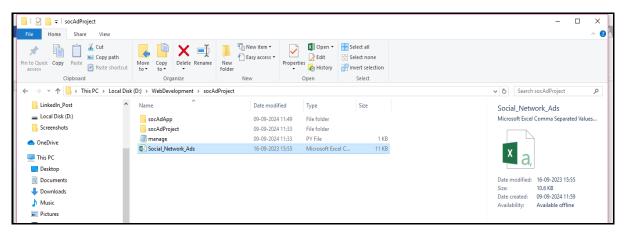


Step 7: Inside the Project folder, one Project file folder and a manage.py file will be created.



Step 8: Copy and paste the Machine Learning Project dataset (.csv file) inside the Project File Folder.

Local Disk (D:) > WebDevelopment > socAdProject > .csv file



Step 9: Navigate to the created folder in the anaconda command prompt using the command, > cd socAdProject

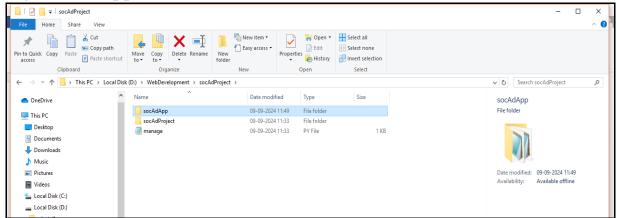


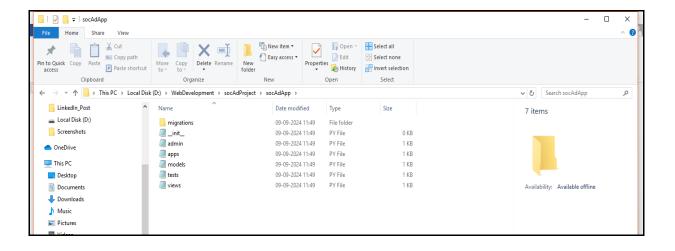
Step 10: Create a new folder (eg. socAdApp) for the Application using the following command,

> django-admin startapp socAdApp

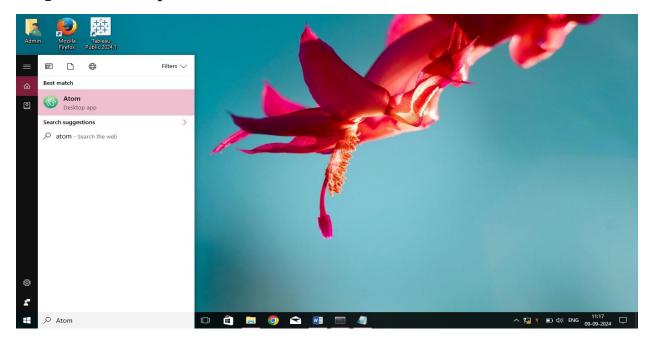


Step 11: Go to the Project folder in your local disk, you can notice an App file folder (eg. socAdApp) will be created with some files.

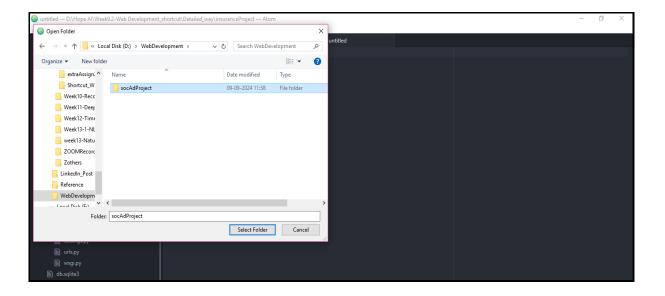




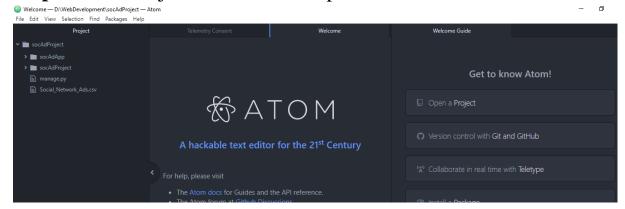
Step 12: Now, open the Atom Editor



Step 13: Select File > Open Folder > socAdProject (Project Folder Name)



Step 14: The Project folder will be opened inside the Atom editor.



Step 15: Open the ckdProject folder in the Atom Editor.

[Note: Do the changes in the forms.py, models.py, views.py, urls.py in our newly created Project folder by referring the above ckdproject folder]

Step 16: Click > socAdProject > settings.py

Copy the above lines from the ckdProject folder
 BASE_DIR = os.path.dirname(os.path.dirname(os.path.abspath(__file__)))
 TEMPLATE_DIR=os.path.join(BASE_DIR,'templates')

```
    settings.py — D:\WebDevelopment\socAdProject — Atom

File Edit View Selection Find Packages Help
  socAdProject
                                              Django settings for socAdProject project.
  > iii socAdApp

▼ im socAdProject

                                              Generated by 'django-admin startproject' using Django 3.0.2.
      init_.py
      asgi.py
                                              For more information on this file, see
      settings.py
                                              https://docs.djangoproject.com/en/3.0/topics/settings/
      urls.py
                                              For the full list of settings and their values, see
      wsgi.py
                                              https://docs.djangoproject.com/en/3.0/ref/settings/
                                              import os
                                          BASE_DIR = os.path.dirname(os.path.dirname(os.path.abspath(__file__)))
```

 a) Scroll down, inside the installed Apps enter the following lines, 'socAdApp', [Note: enter the 'App' name of the project]
 'crispy_forms',
 CRISPY TEMPLATE PACK= 'bootstrap4'

```
# SECURITY WARNING: keep the secret key used in production secret set in production secret secret
```

- b) In the Templates variable, enter the line 'DIRS': [TEMPLATE_DIR,],
- c) Scroll down and come to the STATIC_URL = '/static/', enter the following lines:

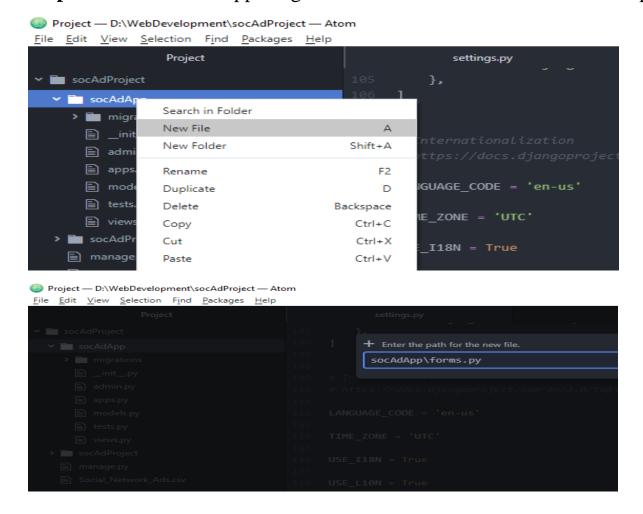
```
STATICFILES_DIRS = (os.path.join(BASE_DIR, 'static'),)

STATIC_ROOT = os.path.join(BASE_DIR, 'staticfiles')

MEDIA_ROOT = os.path.join(BASE_DIR, 'media')

MEDIA_URL = 'media/media/'
```

Step 17: Select socAdApp > right click > click New File > enter forms.py



Step 18: Inside the forms.py, enter the following lines

- 1. Give a name for your form (eg. socForm)
- 2. Give a name for your model. (eg. model= socModel)
- 3. Enter the input variables name from your dataset in the fields variable.

(Note: Input variable name should be same as it is in the dataset)

```
forms.py — D:\WebDevelopment\socAdProject — Atom
File Edit View Selection Find Packages Help
                                                                                             forms.py
                                               from django import forms
  socAdProject

▼ im socAdApp

     > iii migrations
                                               class socForm(forms.ModelForm):
                                                  class Meta():
                                                      model=socModel
      apps.py
                                                       fields=['Age','EstimatedSalary','Gender_Male']
       forms.py
       tests.py
   socAdProject
    manage.py
    Social_Network_Ads.csv
```

Step 19: Select socAdApp > models.py,enter the following lines

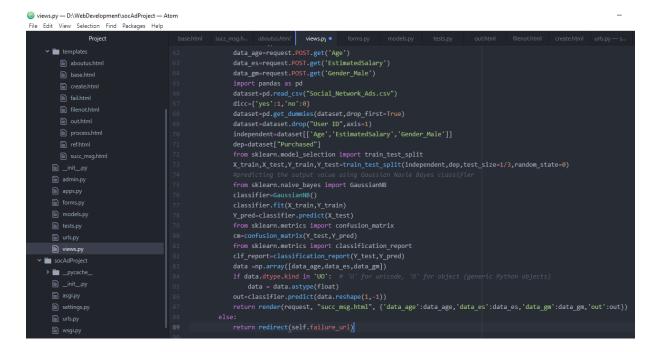
1. The datatype for the given input variables are assigned.

Step 20: Copy the lines from ckdProject > ckdApp > views.py and paste it in the socAdApp > views.py.

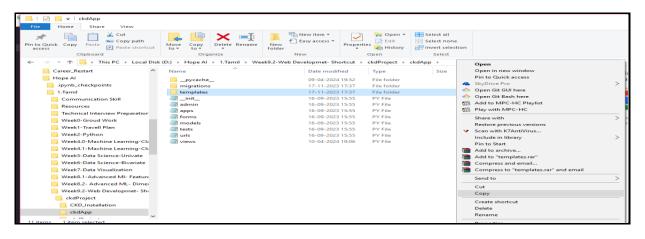
Changes to be made are:

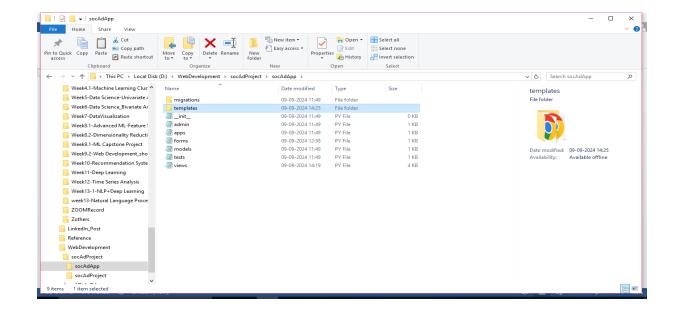
1. Assign a variable name for each input variables in which the input values are received for the backend process

- 2. Paste the Machine Learning project source code .
- 3. In the return statement of the def post(): function, enter the newly assigned variable names and the variable out to view the output.



Step 21: Open the ckdproject folder, Select ckdapp > templates > copy the file and paste it in the socAdProject > socAdApp folder.





Step 22: Click templates > succ_msg.html > change the following

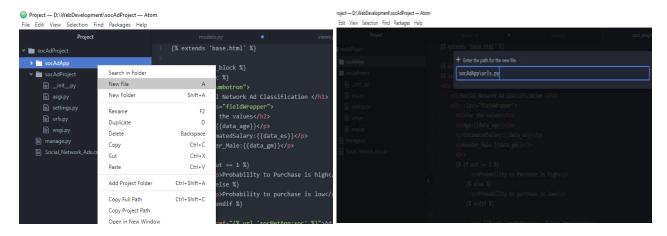
- 1. Change the Heading of the project (eg. Social Network Ad Classification)
- 2. Change the input variables name to be displayed in the output page.
- 3. If it is ML classification project,

succ_msg.html — D:\WebDevelopment\socAdProject — Atom

```
{% if out == 1 %}
    Probability to Purchase is high
    {% else %}
    Probability to purchase is low
    {% endif %}
```

```
File Edit View Selection Find Packages Help
                                               succ_msg.h...
     templates
        create.html
        fail.html
                                              <h1>Social Network Ad Classification </h1>
        filenot.html
        out.html
                                                <h2>For the values</h2>
                                                Gender_Male:{{data_gm}}
        succ_msg.html
      init_.py
                                                {% if out == 1 %}
      admin.py
                                                     Probability to Purchase is high
                                                    {% else %}
      forms.py
                                                  <a href="{% url 'socAdApp:soc' %}">Ad Prediction</a>
      urls.py
    > 🛅 __pycache_
      init_.py
```

Step 23: Right click socAdApp > Select New File > enter urls.py



1.Select > socAdApp > urls.py and paste the copied lines from the

ckdProject > ckdApp > urls.py file

Changes to be made are:

- 1. Enter the project App name in the libraries installed (eg. from socAdApp import views)
- 2. Enter the project App name in the app_name variable. (eg. socAdApp)
- 3. Give a name for the dataUploadview (eg. soc)

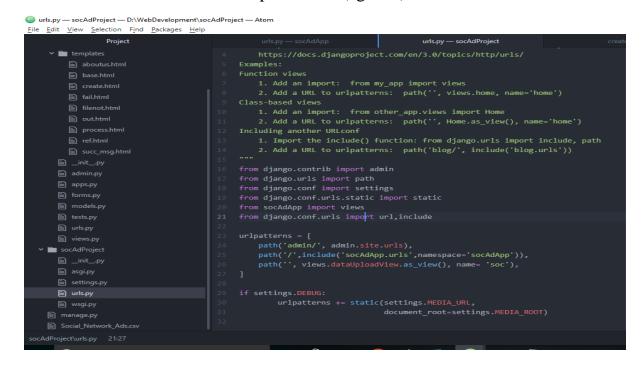
```
Successful Symmetric Control Control
```

Step 24: Select socAdProject > urls.py py and paste the copied lines from the ckdProject > ckdProject > urls.py file

Changes to be made are:

- 1. Enter the project App name in the libraries installed (eg. from socAdApp import views).
- 2. In the urlspattern, change the name of the urls to be included as "socAdApp.urls" and the namespace as "socAdApp".

3. Give a name for the dataUploadview (eg. soc)



Step 25: Select socAdApp > templates > create.html

Changes to be made are:

1. Change the name of the Project to be displayed.

(eg. Social Network Ad Classification)

```
create.html — D:\WebDevelopment\socAdProject — Atom
File Edit View Selection Find Packages Help
                 Project
                                             {% extends 'base.html' %}

▼ imtemplates

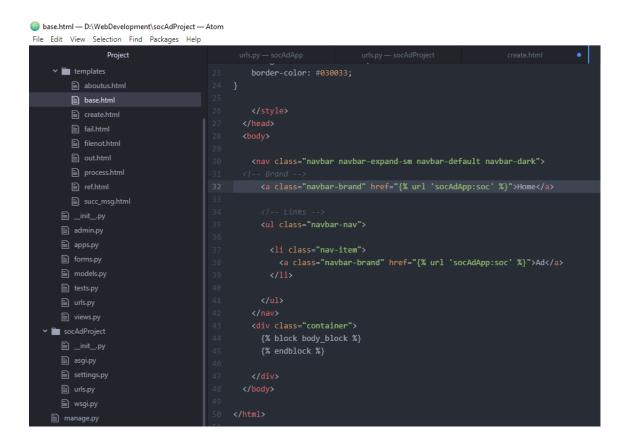
                                             {% load crispy_forms_tags %}
         aboutus.html
                                             {% block body_block %}
        abase.html
                                             <div class="jumbotron">
         create.html
         fail.html
        filenot.html
        out.html
         process.html
                                                 <form method = "post" enctype="multipart/form-data">
        ref.html
                                                    {% csrf_token %}
        succ_msg.html
                                                    {{ form|crispy }}
      init_.py
                                                     <button type="submit" class="btn btn-primary">upload</button>
      admin.py
      apps.py
                                             {% endblock %}
      forms.py
      models.py
      tests.py
```

Step 26: Select socAdApp > templates > base.html

Do the following changes,

1. Rename the Project App name and namespace (eg. socAdfApp:soc)

Home
Ad



Step 27: Select File > Save All.

Step 28: Come to the anaconda command prompt and enter the commands,

>python manage.py migrate

>python manage.py makemigrations socAdApp

>python manage.py createsuperuser

username:SocialAd

pwd:soc1234

confirm pwd: soc1234

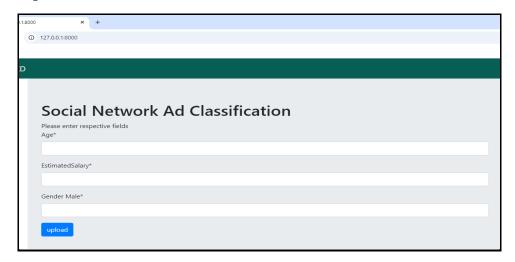
>python manage.py migrate --run-syncdb

>python manage.py runserver

```
(base) C:\Users\Admin>activate Web
(Web) C:\Users\Admin>d:
(Web) D:\ved D:\WebDevelopment
(Web) D:\WebDevelopment>django-admin startproject socAdProject
(Web) D:\WebDevelopment>cd socAdProject
(Web) D:\WebDevelopment\socAdProject>django-admin startapp socAdApp
(Web) D:\WebDevelopment\socAdProject>python manage.py migrate_
```

Output

Input Form:



Output Page

