

AI Powered Garbage Classification

App with CNN Recognition and

Classification

Project Report

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INTRODUCTION

1.1 Overview

A computer vision approach to classify garbage into recycling categories could be an efficient way to process waste. The project aims to take garbage waste images and classify them into six classes: cardboard, glass, paper, metal, plastic and trash. we use garbage image database that contains around 2696 images for each i.e. 450 approx. In this project, we import the images in data generator library and configure the class and then apply the image data generator functionality then we import the model building libraries. Initialize the model, then we add the layers ,first CNN and then dense .

then we have built the HTML web page and for doing this we used:

- Git
- Git Hub
- Python 3.7
- Anaconda Spyder
- Html5
- CSS3
- Java Script
- Flask Framework

1.2 Purpose

This code set shows how to differentiate the garbage type by pulling it aside on the basis of 2696 images we have uploaded and described which will be recognized by CNN. the six type of garbage's are: cardboard, glass, paper, metal, plastic and trash.

On the basis of recognition, the model differentiates the garbage. which is possibly harmful or hazardous to humans labours.

The main purpose of garbage collection system is to provide another way for the labours for reducing the hand-picking method and giving the e-waste materials.

The goals for the system are:

- to make the waste separate by image identification
- to rescue electronic material by recycling or deploy
- to decrease the mixing of waste material from every household

LITERATURE SURVEY

2.1 Existing Problems

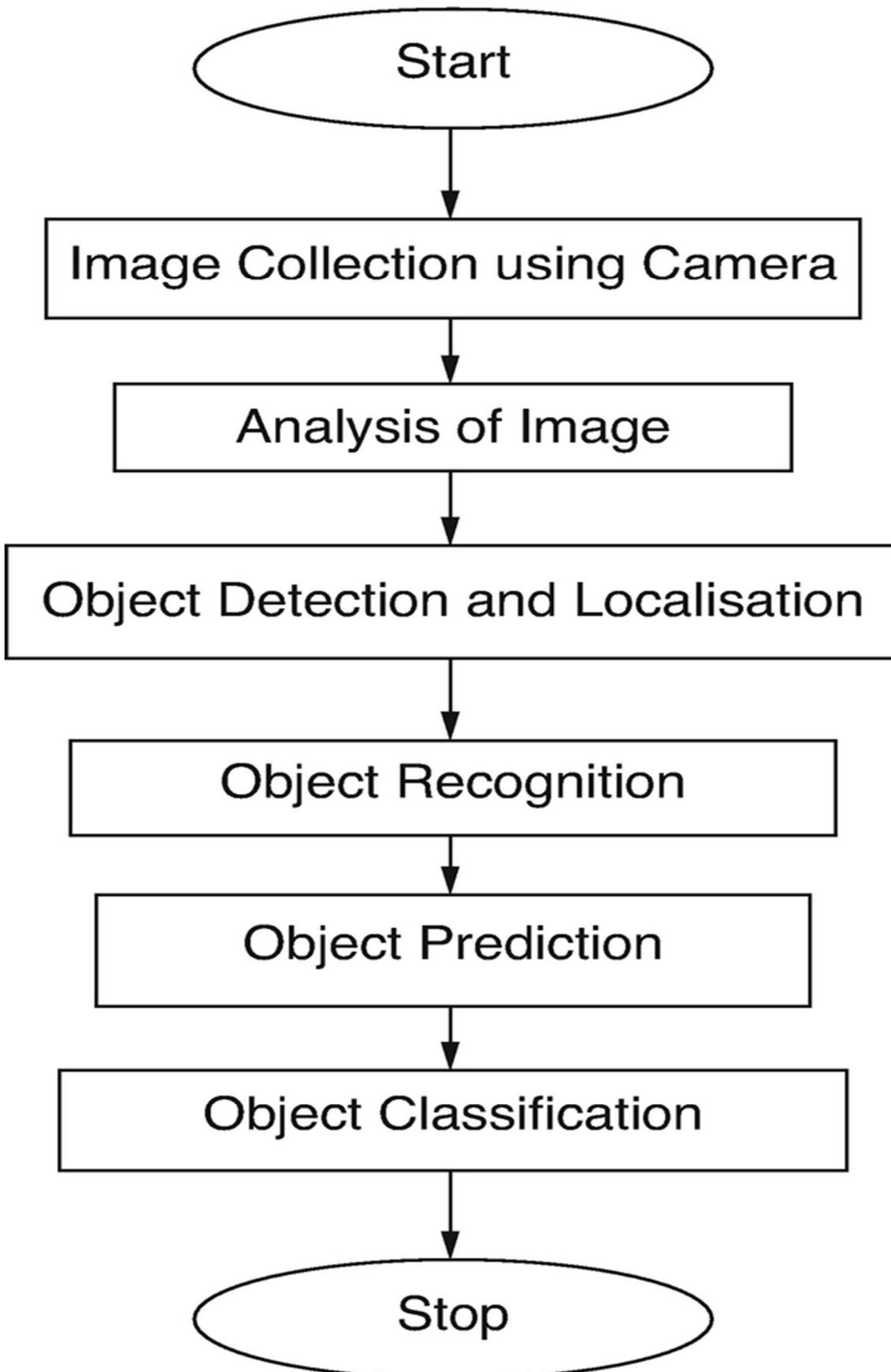
The accumulation of solid waste in the urban area is becoming a great concern, and it would result in environmental pollution and may be hazardous to human health if it is not properly managed. It is important to have an advanced/intelligent waste management system to manage a variety of waste materials. One of the most important steps of waste management is the separation of the waste into the different components and this process is normally done manually by hand-picking. Convolutional Neural Network model which is used to classify the waste into different groups/types such as glass, metal, paper, and plastic etc. The proposed system is tested on the trash image data set which was developed by Gary Thung and Mindy Yang, and is able to achieve an accuracy of 87% on the data set. The separation process of the waste will be faster and intelligent using the proposed waste material classification system without or reducing human involvement.

2.2 Proposed Solution

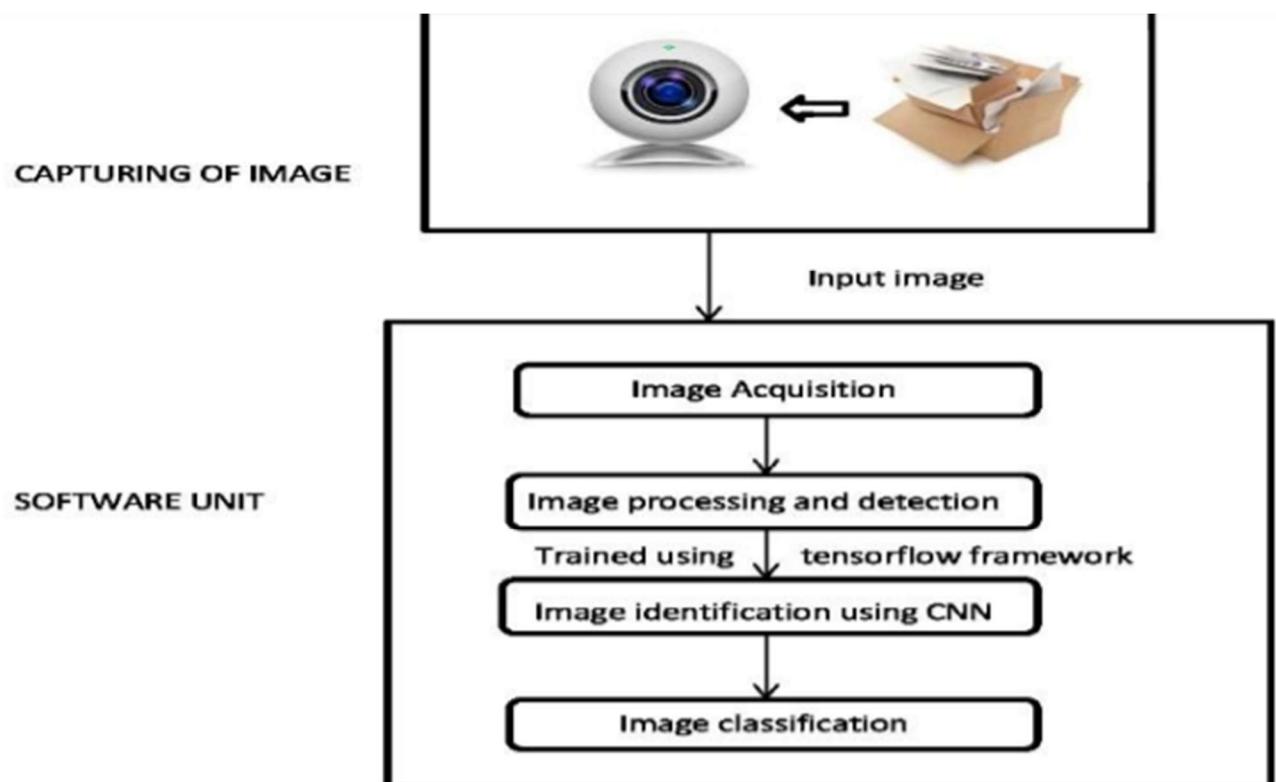
The present way of separating waste/garbage is the hand-picking method, whereby someone is employed to separate out the different objects/materials. The person, who separate waste, is prone to diseases due to the harmful substances in the garbage. With this in mind, it motivated us to develop an automated system which is able to sort the waste and this system can take short time to sort the waste, and it will be more accurate in sorting than the manual way. With the system in place, the beneficial separated waste can still be recycled and converted to energy and fuel for the growth of the economy. The system that is developed for the separation of the accumulated waste is based on the combination of Convolutional Neural Network (CNN) with recognition and classification.

THEORITICAL ANALYSIS

3.1 Block Diagram



3.2 Hardware/Software Designing

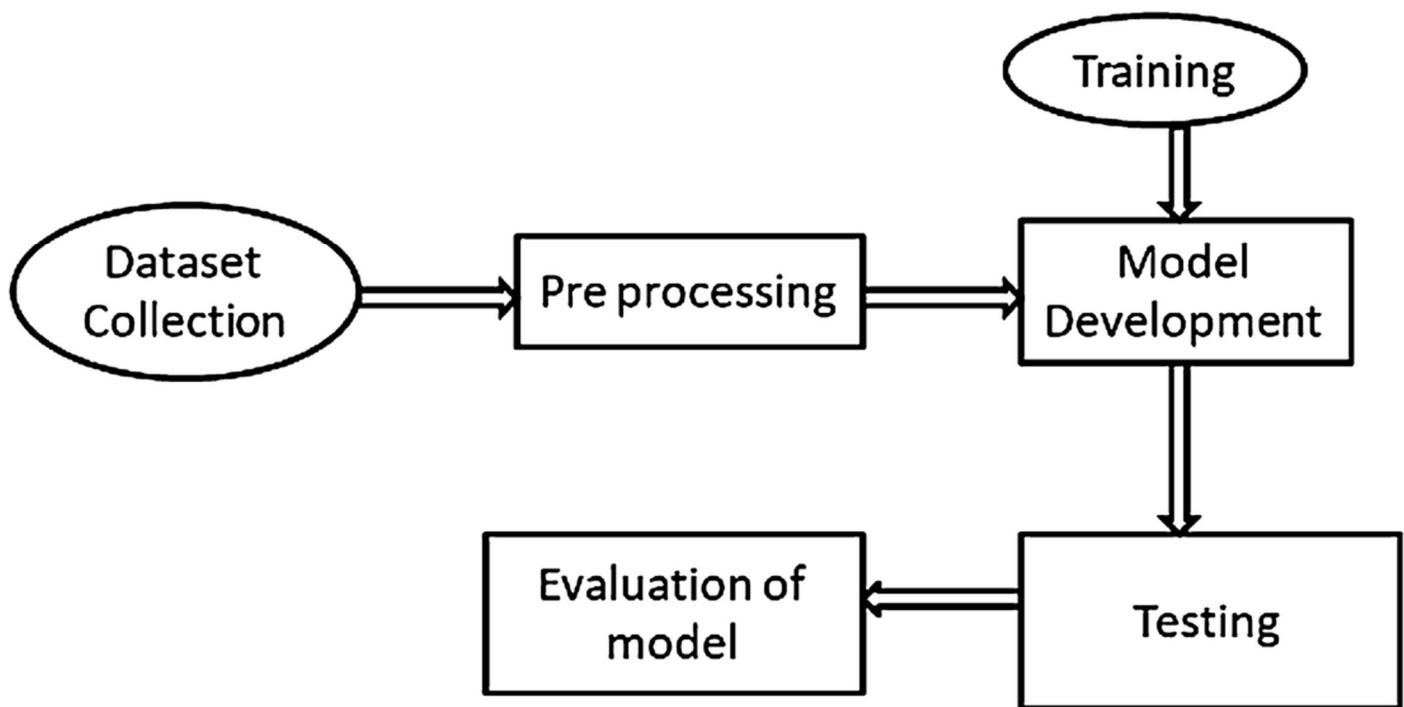


EXPERIMENTAL INVESTIGATION

In this process of developing the project we have undergone many investigation processes to learn and understand the concept of smart garbage classification on the basis of CNN and to make it successfully. For this we have to learn and investigate following:

- Convolution Neural Network
- ZOHO Writer
- Anaconda Spyder
- Slack
- Git Hub
- Git
- Alex net
- Sublime Text for CSS3

FLOWCHART



RESULTS

1) Data Collection:

In our data sets, non-organic recyclable waste has been categorized in 6 groups. These are- cardboard, plastic, metal, glass, paper, and trash. For plastic, we have collected 480 images of each plastic bottles and boxes. In a similar fashion, for each group, we have chosen six objects and for each of them, we have collected 20 images. Hence, our total data sets have 2696 images of many different objects along with their recycle values.

2) Object Detection:

The process initiates by introducing a small region in the whole image and gradually merging them with hierarchical grouping. By analyzing the similarities between all neighboring regions, two most similar regions are selected and then grouped together. After that, the resulting group region is compared with all other neighboring regions and a new group is formed. The whole process continues until it becomes a single region. A demo of object detection and segmentation.

3) Object Recognition:

After detection and segmentation, the images of the objects are fed into the trained CNN for recognition and labeling purposes. The output of the CNN-based model along with a few labeled objects.



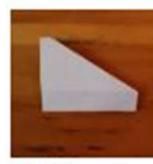
1). Cardboard



2). Glass



3). Metal



4). Paper



5). Plastic



6). Trash

ADVANTAGES

- Reduce the cost and complexity of the edge devices.
- labours life will be safe from harmful and hazardous waste.
- In household waste, there are some substances that are not easy to be degraded and these substances will pollute the soil badly. By garbage classification, we can remove substances that are recyclable and substances that are hard to be degraded. Thus reducing more than 50% of the waste.
- Reduce environmental pollution. The waste battery contains metal mercury, cadmium and other toxic substances that will do harm to human, the waste plastics in the soil will reduce the production of crop and the waste plastics can also lead to the death of animals. Thus recycling these wastes can reduce the damage.

DISADVANTAGE

- High cost
- Need skilled personals
- labours that earn small amount of money by collecting the hand picked garbage's for their living will be effected .

APPLICATION

This garbage classification application powered by CNN is used to classify the type of garbage mainly glass, paper, cardboard and metal. Which recognized by the CNN image recognition process that will help us to classify the garbage and the type of recycling process is to be processed for different type of garbage classified.

CONCLUSION

In conclusion, we proposed a garbage classification system that is able to separate different components of waste using the Machine learning tools. This system can be used to automatically classify waste and help in reducing human intervention and preventing infection and pollution. From the result, when tested against the trash data set, we got an accuracy of 87%. The separation process of the waste will be faster and intelligent using our system without or reducing human involvement. If more image is added to the data set, the system accuracy can be improved In the future, we will tend to improve our system to be able to categories more waste items, by turning some of the parameters used.

FUTURE SCOPE

The product developed can also find application in various food industries, fabrication industries and many more where all the process of segregation is involved.

According to the need, the images of the materials to be separated will be entered in the data set and the algorithm is trained.

BIBIOGRAPHY

Name: Pradeep Kumar

College Name: Greater Noida Institute of Technology (IPU)

Work Title: AI Powered Garbage classification app with CNN Recognition and Classification

Name: Harpreet Kaur

College Name: Greater Noida Institute of Technology (IPU)

Work Title: AI Powered Garbage Classification App with CNN Recognition and Classification

Name: Shiva Hari V Mohan

College Name: Mandsaur University, Mandsaur (M.P)

Work Title: AI Powered Garbage Classification App with CNN Recognition and Classification

Reference:

1. Train and Test Image Data Set

<https://www.kaggle.com/asdasdasdas/garbage-classification>

2. HTML, CSS, JavaScript and Python

<https://stackoverflow.com/>

3. HTML, CSS and JavaScript

<https://www.w3schools.com/>

4. Python CNN Issues

<https://github.com/>

5. Python Preprocessor and Model Building

<https://www.kaggle.com/rkuo2000/garbage-cnn>

6. Working with Flask Framework

<https://palletsprojects.com/p/flask/>

APPENDIX

A. User Interface:

The screenshot shows a web browser window with the URL `localhost:5000`. The main content area displays the title "Garbage Classification using Convolutional Neural Network" and a subtitle "A Project on Artificial Intelligence". Below the title is a cartoon illustration of a person wearing a mask and gloves, holding two dumbbells, standing behind four recycling bins (blue, grey, green, red) with their respective recycling symbols. To the right, there is a sidebar titled "Upload a Garbage Image" with a "Choose..." button and a preview image of a metallic object. A text box below the sidebar displays the prediction: "The predicted garbage is : Metal".

The screenshot shows the same web application interface. On the left, there is a detailed description of the project's motivation and methodology, mentioning the hand-picking method and the development of an automated system using a Convolutional Neural Network. It also describes the use of a pre-trained model and the creation of a simple HTML web page. On the right, there is a "Contributors" section featuring profiles for two team members: Shiva Hari V Mohan and Pradeep Kumar, each with a photo, name, and affiliation.

cardboard,glass,paper,metal,plastic and trash.
On the basis of recognition the model differentiate the garbage which is possibly harmful or hazardous to humans labours.
The main purpose of garbage collection system is to provide another way for the laboures for reducing the hand picking method and giving the e-waste materials.
The goals for the system are:

- to make the waste separate by image identification
- to rescue electronic material by recycling or deploy
- to decrease the mixing of waste material from every household

Object Recognition:

After detection and segmentation, the images of the objects are fed into the trained CNN for recognition and labeling purposes. The output of the CNN-based model along with a few labeled objects as shown below:-

1). Cardboard	2). Glass	3). Metal	4). Paper	5). Plastic	6). Trash

B. Source Code:

1. base.html

```

1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <title>Garbage Classification</title>
5   <meta charset="UTF-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1">
7   <link href="{{ url_for('static', filename='css/main.css') }}" rel="stylesheet">
8   <link href="{{ url_for('static', filename='css/main2.css') }}" rel="stylesheet">
9   <link href="{{ url_for('static', filename='css/buttons.css') }}" rel="stylesheet">
10  <script type="text/javascript" src="{{ url_for('static', filename='js/profile.js') }}" async defer></script>
11  <style>
12    body,h1,h2,h3,h4,h5 {font-family: "Raleway", sans-serif}
13  </style>
14 </head>
15 <body class="light-grey">
16
17 <!-- content defines a container for fixed size centered content,
18 and is wrapped around the whole page content, except for the footer in this example -->
19 <div class="content" style="max-width:1400px">
20
21 <!-- Header -->
22 <header class="container center padding-32">
23   <h1>Garbage Classification using Convolutional Neural Network</h1>
24   <p>A Project on <span class="tag">Artificial Intelligence</span></p>
25 </header>
26
27 <!-- Grid -->
28 <div class="row">
29
30 <!-- Blog entries -->
31 <div class="col l8 s12">
32   <!-- Blog entry -->
33   <div class="card-4 margin white">
34     <div class="slideshow-container">
35       <div class="muSlider fade">

```

Spyder (Python 3.7)

File Edit Search Source Run Debug Consoles Projects Tools View Help

E:\Smart bridge Internship\Garbage Classification\Main\templates\base.html

```

36     <div class="mySlides fade">
37         
39
40     <div class="mySlides fade">
41         
42     </div>
43
44     <div class="mySlides fade">
45         
46     </div>
47
48     <div class="mySlides fade">
49         
50     </div>
51
52     <div class="mySlides fade">
53         
54     </div>
55
56     <div class="mySlides fade">
57         
58     </div>
59
60     </div>
61     <br>
62
63     <div class="container">
64         <h3><b>Garbage Classification</b></h3>
65         <h5><span class="opacity">June 11, 2020</span></h5>
66     </div>
67
68     <div class="container">
69         <p>The present way of separating waste/garbage is the hand-picking method, whereby someone is employed to
70         the combination of Convolutional Neural Network with recognition and classification.</p>
71     <div class="row1">

```

Files Variable explorer Help Plots

Console 1/A

```

Model loaded Check http://localhost:5000/
* Serving Flask app "App" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a
  production deployment.
  Use a production WSGI server instead.
* Debug mode: on
* Restarting with windowsapi reloader

```

In [2]:

IPython console History

conda: base (Python 3.7.7) Line 43, Col 1 UTF-8-GUESSED LF RW Mem 50%

Windows Taskbar: Search, File Explorer, Google Chrome, Microsoft Word, Spyder, Task View, Task Manager, Start button, System Tray: ENG 08:21 PM 13-Jun-20

Spyder (Python 3.7)

File Edit Search Source Run Debug Consoles Projects Tools View Help

E:\Smart bridge Internship\Garbage Classification\Main\templates\base.html

```

71     <div class="row1">
72         <div class="col m8 s12">
73             </div>
74             <div class="col m4 hide-small">
75                 <p><span class="padding-large right"><b>Upload a Garbage Image</b></span><span class="tag"></span><span></span></p>
76             </div>
77         </div>
78     </div>
79     <hr>
80
81
82     <!-- END BLOG ENTRIES -->
83 </div>
84
85     <!-- Introduction menu -->
86     <div class="col l4">
87         <!-- About Card -->
88         <div class="card margin margin-top">
89             <div>
90                 <div class="container padding" style="background-color: #A9A9A9 ;">
91                     <h4 style="text-decoration-style: bold;">Upload a Garbage Image</h4>
92                 </div>
93                 <form action = "http://localhost:5000/predict" id="upload-file" method="post" enctype="multipart/form-data">
94                     <label for="imageUpload" class="upload-label">
95                         Choose...
96                     </label>
97                     <input type="file" name="image" id="imageUpload" accept=".png, .jpg, .jpeg">
98                 </form>
99
100
101             <div class="image-section" style="display:none;">
102                 <div class="img-preview">
103                     <div id="imagePreview">
104                         </div>
105                     </div>
106                 </div>

```

Files Variable explorer Help Plots

Console 1/A

```

Model loaded Check http://localhost:5000/
* Serving Flask app "App" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a
  production deployment.
  Use a production WSGI server instead.
* Debug mode: on
* Restarting with windowsapi reloader

```

In [2]:

IPython console History

conda: base (Python 3.7.7) Line 43, Col 1 UTF-8-GUESSED LF RW Mem 50%

Windows Taskbar: Search, File Explorer, Google Chrome, Microsoft Word, Spyder, Task View, Task Manager, Start button, System Tray: ENG 08:22 PM 13-Jun-20

Spyder (Python 3.7)

File Edit Search Source Run Debug Consoles Projects Tools View Help

E:\Smart bridge Internship\Garbage Classification\Main\templates\base.html

base.html Preprocessed.py Model.py App.py main.js

```
104         <div id="imagePreview">
105             </div>
106         </div>
107         <div style="padding-left: 70px;">
108             <button type="button" class="btn btn-info btn-lg" id="btn-predict">Click on this to see what Garbage
109             </button>
110         </div>
111
112         <div class="Loader" style="display:none;"></div>
113
114         <h3>
115             <span id="result"> </span>
116         </h3>
117
118     </div>
119
120 </div><hr>
121
122 <!-- Posts -->
123 <div class="card margin">
124     <div class="container padding" style="background-color: #A9A9A9;">
125         <h4>Contributors</h4>
126     </div>
127     <ul class="ul hoverable white">
128         <li class="padding-16">
129             <div class="LI-profile-badge" style="padding-left: 22px" data-version="v1" data-size="large" data-loc:</div>
130         <li class="padding-16">
131             <div class="LI-profile-badge" style="padding-left: 22px" data-version="v1" data-size="large" data-loc:</div>
132         <li class="padding-16">
133             <div class="LI-profile-badge" style="padding-left: 22px" data-version="v1" data-size="large" data-loc:</div>
134         <li class="padding-16">
135             <div class="LI-profile-badge" style="padding-left: 22px" data-version="v1" data-size="large" data-loc:</div>
136         <li class="padding-16">
137             <div class="LI-profile-badge" style="padding-left: 22px" data-version="v1" data-size="large" data-loc:</div>
138         <li class="padding-16">
139             <div class="LI-profile-badge" style="padding-left: 22px" data-version="v1" data-size="large" data-loc:</div>
140     </ul>
141 </div>
142 <hr>
```

Name Date Modified

- __pycache__ 09-Jun-20 02:08 PM
- .git 13-Jun-20 06:57 PM
- .idea 12-Jun-20 02:46 PM
- Data Collection 09-Jun-20 02:09 AM
- new images 11-Jun-20 06:38 PM
- Preprocessed and Model 13-Jun-20 06:49 PM
- static 12-Jun-20 02:46 PM
- templates 12-Jun-20 02:46 PM
- uploads 13-Jun-20 06:50 PM
- User Interface 13-Jun-20 07:24 PM

Console 1/A

```
Model loaded Check http://localhost:5000/
* Serving Flask app "App" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a
  production deployment.
  Use a production WSGI server instead.
* Debug mode: on
* Restarting with windowsapi reloader
```

In [2]:

IPython console History

conda: base (Python 3.7.7) Line 43, Col 1 UTF-8-GUESSED LF RW Mem 50%

Windows Taskbar: Search, File Explorer, Google Chrome, Microsoft Word, Spyder, Task View, Task Manager, Task Scheduler, Taskbar Icons.

Spyder (Python 3.7)

File Edit Search Source Run Debug Consoles Projects Tools View Help

E:\Smart bridge Internship\Garbage Classification\Main\templates\base.html

base.html Preprocessed.py Model.py App.py main.js

```
130         <div class="LI-profile-badge" style="padding-left: 22px" data-version="v1" data-size="large" data-loc:</div>
131     </li>
132     <li class="padding-16">
133         <div class="LI-profile-badge" style="padding-left: 22px" data-version="v1" data-size="large" data-loc:</div>
134     </li>
135     <li class="padding-16">
136         <div class="LI-profile-badge" style="padding-left: 22px" data-version="v1" data-size="large" data-loc:</div>
137     </li>
138     <li class="padding-16">
139         <div class="LI-profile-badge" style="padding-left: 22px" data-version="v1" data-size="large" data-loc:</div>
140     </li>
141 </ul>
142 </div>
143 <hr>
```

Name Date Modified

- __pycache__ 09-Jun-20 02:08 PM
- .git 13-Jun-20 06:57 PM
- .idea 12-Jun-20 02:46 PM
- Data Collection 09-Jun-20 02:09 AM
- new images 11-Jun-20 06:38 PM
- Preprocessed and Model 13-Jun-20 06:49 PM
- static 12-Jun-20 02:46 PM
- templates 12-Jun-20 02:46 PM
- uploads 13-Jun-20 06:50 PM
- User Interface 13-Jun-20 07:24 PM

Console 1/A

```
Model loaded Check http://localhost:5000/
* Serving Flask app "App" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a
  production deployment.
  Use a production WSGI server instead.
* Debug mode: on
* Restarting with windowsapi reloader
```

In [2]:

IPython console History

conda: base (Python 3.7.7) Line 43, Col 1 UTF-8-GUESSED LF RW Mem 50%

Windows Taskbar: Search, File Explorer, Google Chrome, Microsoft Word, Spyder, Task View, Task Manager, Taskbar Icons.

2. Preprocessed.py

The screenshot shows the Spyder Python IDE interface. The main window displays the content of the 'Preprocessed.py' file:

```
1 #Import The ImageDataGenerator Library
2 from keras.preprocessing.image import ImageDataGenerator
3
4 #Configure ImageDataGenerator Class
5 train_datagen = ImageDataGenerator(rescale = 1./255, shear_range = 0.2, zoom_range=0.2, horizontal_flip =True)
6 test_datagen = ImageDataGenerator(rescale=1./255)
7
8 #Apply ImageDataGenerator Functionality To Trainset And Testset
9 x_train = train_datagen.flow_from_directory(r'E:\Smart bridge Internship\Garbage Classification\Main\Preprocessed and Model\Preprocessed')
10 x_test = test_datagen.flow_from_directory(r'E:\Smart bridge Internship\LLSPS-INT-2749-Garbage-Classification\Dat
11 print(x_train.class_indices)
```

The right side of the interface includes a file browser showing files like '_pycache_', 'garbage.h5', 'Model.py', and 'Preprocessed.py'. Below the file browser is a 'Console 1/A' window displaying logs related to Flask and TensorFlow. At the bottom, the system taskbar shows the Python environment ('LSP Python: ready') and the current date and time ('08:26 PM 13-Jun-20').

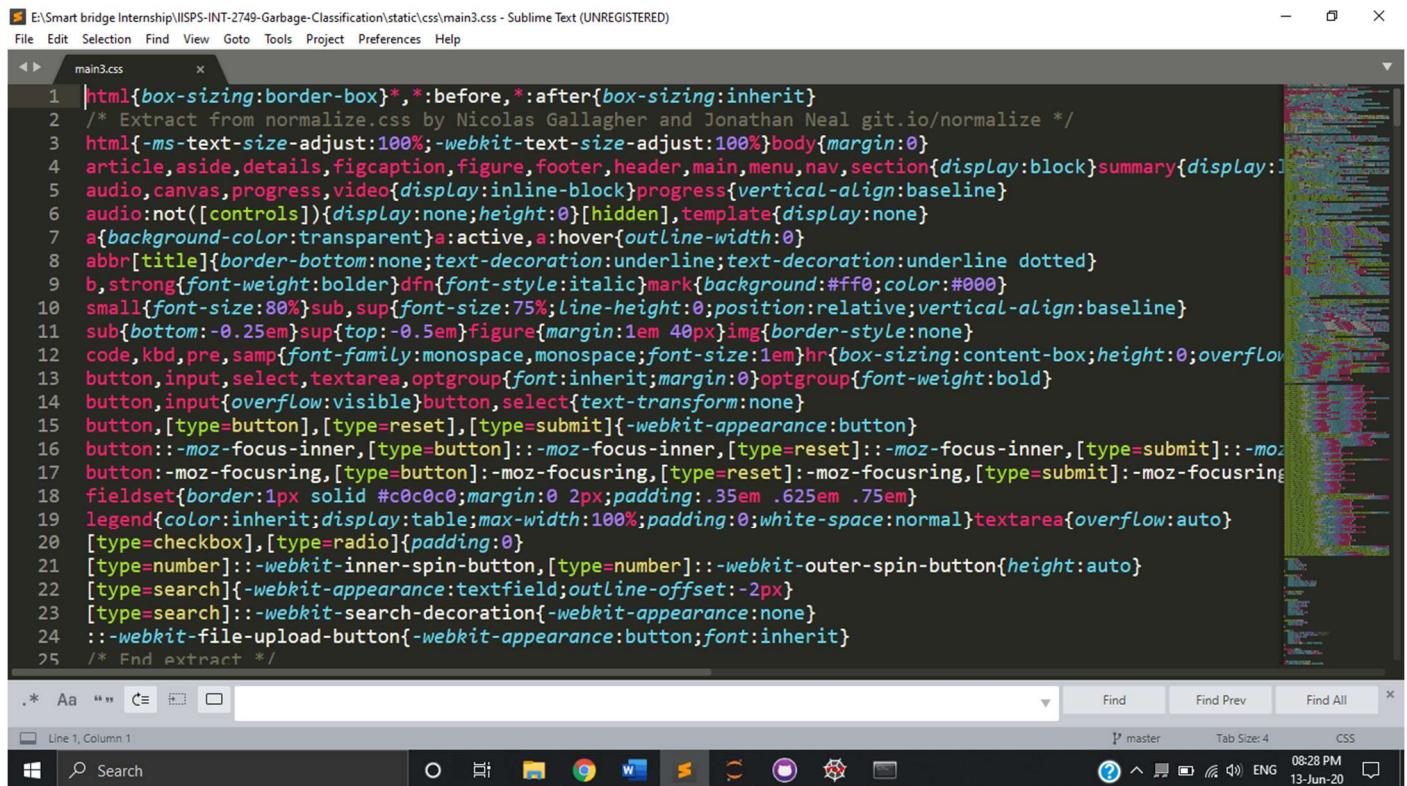
3. Model.py

The screenshot shows the Spyder Python IDE interface. The main window displays the content of the 'Model.py' file:

```
1 #Importing The Model Building Libraries
2 from keras.models import Sequential
3 from keras.layers import Dense
4 from keras.layers import Convolution2D
5 from keras.layers import MaxPooling2D
6 from keras.layers import Flatten
7
8 #Initializing The Model
9 model = Sequential()
10
11 #Loading The Preprocessed Data
12 from Preprocessed import *
13
14 #Adding CNN Layers
15 model.add(Convolution2D(32,(3,3),input_shape = (64,64,3),activation = 'relu'))
16
17 #Configure The Learning Process
18 model.add(MaxPooling2D(pool_size = (2,2)))
19 model.add(Flatten())
20
21 #Adding Dense Layers
22 model.add(Dense(output_dim = 128 ,init = 'uniform',activation = 'relu'))
23 model.add(Dense(output_dim = 6,activation = 'softmax',init = 'uniform'))
24
25 #Optimise The Model
26 model.compile(loss = 'categorical_crossentropy',optimizer = "adam",metrics = ["accuracy"])
27
28 #Train And Test The Model
29 model.fit_generator(x_train, steps_per_epoch = 126,epochs = 1000,validation_data = x_test,validation_steps = 32)
30
31 #Saving the model
32 model.save("garbage.h5")
```

The right side of the interface includes a file browser showing files like '_pycache_', 'garbage.h5', 'Model.py', and 'Preprocessed.py'. Below the file browser is a 'Console 1/A' window displaying logs related to Flask and TensorFlow. At the bottom, the system taskbar shows the Python environment ('LSP Python: ready') and the current date and time ('08:27 PM 13-Jun-20').

4. main3.css



E:\Smart bridge Internship\IISPS-INT-2749-Garbage-Classification\static\css\main3.css - Sublime Text (UNREGISTERED)

```
1 html{box-sizing:border-box}*,*:before,:after{box-sizing:inherit}
2 /* Extract from normalize.css by Nicolas Gallagher and Jonathan Neal git.io/normalize */
3 html{-ms-text-size-adjust:100%;-webkit-text-size-adjust:100%}body{margin:0}
4 article,aside,details,figcaption,figure,footer,header,main,menu,nav,section{display:block}summary{display:}
5 audio,canvas,progress,video{display:inline-block}progress{vertical-align:baseline}
6 audio:not([controls]){display:none;height:0}*[hidden],template{display:none}
7 a{background-color:transparent}a:active,a:hover{outline-width:0}
8 abbr[title]{border-bottom:none;text-decoration:underline dotted}
9 b,strong{font-weight:bolder}dfn{font-style:italic}mark{background:#ff0;color:#000}
10 small{font-size:80%}sub,sup{font-size:75%;line-height:0;position:relative;vertical-align:baseline}
11 sub{bottom:-0.25em}sup{top:-0.5em}figure{margin:1em 40px}img{border-style:none}
12 code,kbd,pre,samp{font-family:monospace,monospace;font-size:1em}hr{box-sizing:content-box;height:0;overflow:visible}
13 button,input,select,textarea,optgroup{font:inherit;margin:0}optgroup{font-weight:bold}
14 button,input{overflow:visible}button,select{text-transform:none}
15 button,[type=button],[type=reset],[type=submit]{-webkit-appearance:button}
16 button::-moz-focus-inner,[type=button]::-moz-focus-inner,[type=reset]::-moz-focus-inner,[type=submit]::-moz-focus-inner
17 button:-moz-focusring,[type=button]:-moz-focusring,[type=reset]:-moz-focusring,[type=submit]:-moz-focusring
18 fieldset{border:1px solid #c0c0c0;margin:0 2px;padding:.35em .625em .75em}
19 legend{color:inherit;display:table;max-width:100%;padding:0;white-space:normal}textarea{overflow:auto}
20 [type=checkbox],[type=radio]{padding:0}
21 [type=number]::-webkit-inner-spin-button,[type=number]::-webkit-outer-spin-button{height:auto}
22 [type=search]{-webkit-appearance:textfield;outline-offset:-2px}
23 [type=search]::-webkit-search-decoration{-webkit-appearance:none}
24 ::-webkit-file-upload-button{-webkit-appearance:button;font:inherit}
25 /* End extract */
```

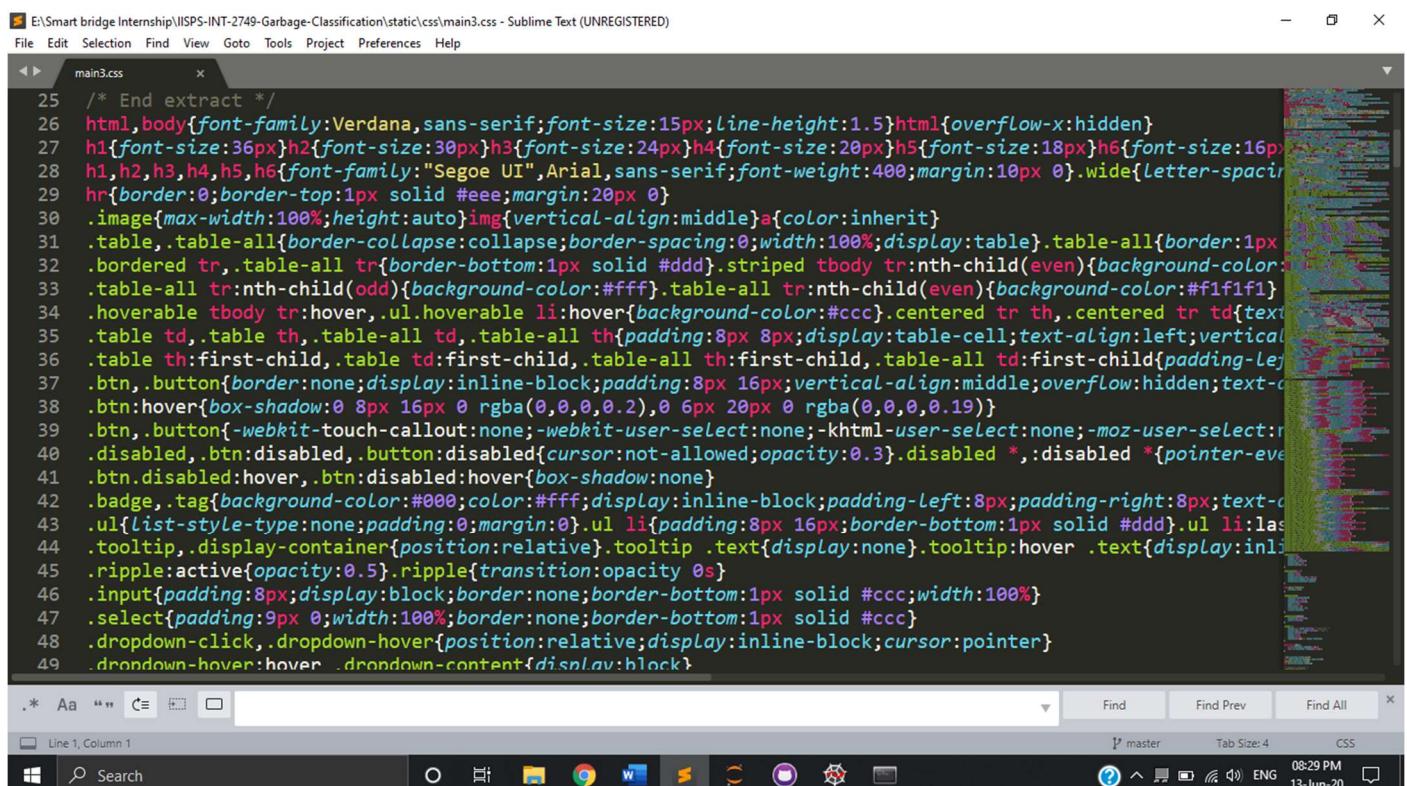
Find Find Prev Find All

Line 1, Column 1

P master Tab Size: 4 CSS

Search

08:28 PM 13-Jun-20



E:\Smart bridge Internship\IISPS-INT-2749-Garbage-Classification\static\css\main3.css - Sublime Text (UNREGISTERED)

```
25 /* End extract */
26 html,body{font-family:Verdana,sans-serif;font-size:15px;line-height:1.5}html{overflow-x:hidden}
27 h1{font-size:36px}h2{font-size:30px}h3{font-size:24px}h4{font-size:20px}h5{font-size:18px}h6{font-size:16px}
28 h1,h2,h3,h4,h5,h6{font-family:"Segoe UI",Arial,sans-serif;font-weight:400;margin:10px 0}.wide{letter-spacing:1px}
29 hr{border:0;border-top:1px solid #eee;margin:20px 0}
30 .image{max-width:100%;height:auto}img{vertical-align:middle}a{color:inherit}
31 .table,.table-all{border-collapse:collapse;border-spacing:0;width:100%;display:table}.table-all{border:1px solid #ddd}
32 .bordered tr,.table-all tr{border-bottom:1px solid #ddd}.striped tbody tr:nth-child(even){background-color:#f1f1f1}
33 .table-all tr:nth-child(odd){background-color:#fff}.table-all tr:nth-child(even){background-color:#f1f1f1}
34 .hoverable tbody tr:hover,.ul.hoverable li:hover{background-color:#ccc}.centered tr th,.centered tr td{text-align:center}
35 .table td,.table th,.table-all td,.table-all th{padding:8px 8px;display:table-cell;text-align:left;vertical-align:top}
36 .table th:first-child,.table td:first-child,.table-all th:first-child,.table-all td:first-child{padding-left:10px}
37 .btn,.button{border:none;display:inline-block;padding:8px 16px;vertical-align:middle;overflow:hidden;text-decoration:none}
38 .btn:hover{box-shadow:0 8px 16px 0 rgba(0,0,0,0.2),0 6px 20px 0 rgba(0,0,0,0.19)}
39 .btn,.button{-webkit-touch-callout:none;-khtml-user-select:none;-moz-user-select:none;-ms-user-select:none}
40 .disabled,.btn:disabled,.button:disabled{cursor:not-allowed;opacity:0.3}.disabled *,:disabled *{pointer-events:none}
41 .btn.disabled:hover,.button:disabled:hover{box-shadow:none}
42 .badge,.tag{background-color:#000;color:#fff;display:inline-block;padding-left:8px;padding-right:8px;text-align:center}
43 .ul{list-style-type:none;padding:0;margin:0}.ul li{padding:8px 16px;border-bottom:1px solid #ddd}.ul li:last-child{border-bottom:0}
44 .tooltip,.display-container{position:relative}.tooltip .text{display:none}.tooltip:hover .text{display:inline-block}
45 .ripple:active{opacity:0.5}.ripple{transition:opacity 0s}
46 .input{padding:8px;display:block;border:none;border-bottom:1px solid #ccc;width:100%}
47 .select{padding:9px 0;width:100%;border:none;border-bottom:1px solid #ccc}
48 .dropdown-click,.dropdown-hover{position:relative;display:inline-block;cursor:pointer}
49 .dropdown-hover:hover .dropdown-content{display:block}
```

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Line 1, Column 1

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Search

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E:\Smart bridge Internship\IISPS-INT-2749-Garbage-Classification\static\css\main3.css - Sublime Text (UNREGISTERED)

```
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main3.css

```
49 .dropdown-hover:hover .dropdown-content{display:block}
50 .dropdown-hover:first-child,.dropdown-click:hover{background-color:#ccc;color:#000}
51 .dropdown-hover:hover > .button:first-child,.dropdown-click:hover > .button:first-child{background-color:#000;color:#fff}
52 .dropdown-content{cursor:auto;color:#000;background-color:#fff;display:none;position:absolute;min-width:160px;z-index:1}
53 .check,.radio{width:24px;height:24px;position:relative;top:6px}
54 .sidebar{height:100%;width:200px;background-color:#fff;position:fixed!important;z-index:1;overflow:auto}
55 .bar-block .dropdown-hover,.bar-block .dropdown-click{width:100%}
56 .bar-block .dropdown-hover .dropdown-content,.bar-block .dropdown-click .dropdown-content{min-width:100%}
57 .bar-block .dropdown-hover .button,.bar-block .dropdown-click .button{width:100%;text-align:left;padding:8px}
58 .main,#main{transition:margin-left .4s}
59 .modal{z-index:3;display:none;padding-top:100px;position:fixed;left:0;top:0;width:100%;height:100%;overflow:hidden}
60 .modal-content{margin:auto;background-color:#fff;position:relative;padding:0;outline:0;width:600px}
61 .bar{width:100%;overflow:hidden}.center .bar{display:inline-block;width:auto}
62 .bar .bar-item{padding:8px 16px;float:left;width:auto;border:none;display:block;outline:0}
63 .bar .dropdown-hover,.bar .dropdown-click{position:static;float:left}
64 .bar .button{white-space:nowrap}
65 .bar-block .bar-item{width:100%;display:block;padding:8px 16px;text-align:left;border:none;white-space:nowrap}
66 .bar-block.center .bar-item{text-align:center}.block{display:block;width:100%}
67 .responsive{display:block;overflow-x:auto}
68 .container:after,.container:before,.panel:after,.row1:after,.row1:before,.row-padding:after,.row-padding:before,.cell-row:after,.cell-row:before,.clear:after,.clear:before,.bar:before,.bar:after{content:"";display:table}
69 .col,.half,.third,.twothird,.threequarter,.quarter{float:left;width:100%}
70 .col.s1{width:8.33333%}.col.s2{width:16.66666%}.col.s3{width:24.99999%}.col.s4{width:33.33333%}
71 .col.s5{width:41.66666%}.col.s6{width:49.99999%}.col.s7{width:58.33333%}.col.s8{width:66.66666%}
72 .col.s9{width:74.99999%}.col.s10{width:83.33333%}.col.s11{width:91.66666%}.col.s12{width:99.99999%}
```

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main3.css

```
73 .col.s9{width:74.99999%}.col.s10{width:83.33333%}.col.s11{width:91.66666%}.col.s12{width:99.99999%}
74 @media (min-width:601px){.col.m1{width:8.33333%}.col.m2{width:16.66666%}.col.m3,.quarter{width:24.99999%}.col.m4{width:33.33333%}.col.m5{width:41.66666%}.col.m6,.half{width:49.99999%}.col.m7{width:58.33333%}.col.m8,.twothird{width:66.66666%}.col.m9,.threequarter{width:74.99999%}.col.m10{width:83.33333%}.col.m11{width:91.66666%}.col.m12{width:99.99999%}}
75 @media (min-width:993px){.col.l1{width:8.33333%}.col.l2{width:16.66666%}.col.l3{width:24.99999%}.col.l4{width:33.33333%}.col.l5{width:41.66666%}.col.l6{width:49.99999%}.col.l7{width:58.33333%}.col.l8{width:66.66666%}.col.l9{width:74.99999%}.col.l10{width:83.33333%}.col.l11{width:91.66666%}.col.l12{width:99.99999%}}
76 .rest{overflow:hidden}.stretch{margin-left:-16px;margin-right:-16px}
77 .content1,.auto{margin-left:auto;margin-right:auto}.content1{max-width:980px}.auto{max-width:1140px}
78 .cell-row{display:table;width:100%}.cell{display:table-cell}
79 .cell-top{vertical-align:top}.cell-middle{vertical-align:middle}.cell-bottom{vertical-align:bottom}
80 .hide{display:none!important}.show-block,.show{display:block!important}.show-inline-block{display:inline-block}
81 @media (max-width:1205px){.auto{max-width:95%}}
82 @media (max-width:600px){.modal-content{margin:0 10px;width:auto!important}.modal{padding-top:30px}}
83 .dropdown-hover.mobile .dropdown-content,.dropdown-click.mobile .dropdown-content{position:relative}
84 .hide-small{display:none!important}.mobile{display:block;width:100%!important}.bar-item.mobile,.dropdown-hover.mobile,.dropdown-click.mobile,.dropdown-content.mobile{width:100%}
85 .dropdown-hover.mobile,.dropdown-hover.mobile .btn,.dropdown-hover.mobile .button,.dropdown-click.mobile,.dropdown-click.mobile .button,.dropdown-content.mobile{width:100%}
86 @media (max-width:768px){.modal-content{width:500px}.modal{padding-top:50px}}
87 @media (min-width:993px){.modal-content{width:900px}.hide-large{display:none!important}.sidebar.collapse{display:none}}
88 @media (max-width:992px) and (min-width:601px){.hide-medium{display:none!important}}
89 @media (max-width:992px){.sidebar.collapse{display:none}.main{margin-left:0!important;margin-right:0!important}}
90 .top,.bottom{position:fixed;width:100%;z-index:1}.top{top:0}.bottom{bottom:0}
91 .overlap{position:fixed;display:none;width:100%;height:100%;top:0;left:0;right:0;bottom:0;background-color:#fff}
92 .display-topleft{position:absolute;left:0;top:0}.display-topright{position:absolute;right:0;top:0}
93 .display-bottomleft{position:absolute;left:0;bottom:0}.display-bottomright{position:absolute;right:0;bottom:0}
```

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Line 1, Column 1

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main3.css

```
97 .display-bottomleft{position: absolute; left: 0; bottom: 0}.display-bottomright{position: absolute; right: 0; bottom: 0}
98 .display-middle{position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); -ms-transform: translate(-50%, -50%)}
99 .display-left{position: absolute; top: 50%; left: 0%; transform: translate(0%, -50%); -ms-transform: translate(0%, -50%)}
100 .display-right{position: absolute; top: 50%; right: 0%; transform: translate(0%, -50%); -ms-transform: translate(0%, -50%)}
101 .display-topmiddle{position: absolute; left: 50%; top: 0; transform: translate(-50%, 0%); -ms-transform: translate(-50%, 0%)}
102 .display-bottommiddle{position: absolute; left: 50%; bottom: 0; transform: translate(-50%, 0%); -ms-transform: translate(-50%, 0%)}
103 .display-container:hover .display-hover{display: block}.display-container:hover span.display-hover{display: block}
104 .display-position{position: absolute}
105 .circle{border-radius: 50%}
106 .round-small{border-radius: 2px}.round, .round-medium{border-radius: 4px}.round-large{border-radius: 8px}.round-xlarge{border-radius: 16px}
107 .row-padding, .row-padding>.half, .row-padding>.third, .row-padding>.twothird, .row-padding>.threequarter, .row-padding-xlarge{padding: 0.01em 16px}
108 .container, .panel{padding: 0.01em 16px}.panel{margin-top: 16px; margin-bottom: 16px}
109 .code, .codespan{font-family: Consolas, "courier new"; font-size: 16px}
110 .code{width: auto; background-color: #fff; padding: 8px 12px; border-left: 4px solid #4CAF50; word-wrap: break-word}
111 .codespan{color: crimson; background-color: #f1f1f1; padding-left: 4px; padding-right: 4px; font-size: 110%}
112 .card, .card-2{box-shadow: 0 2px 5px 0 rgba(0, 0, 0, 0.16), 0 2px 10px 0 rgba(0, 0, 0, 0.12)}
113 .card-4, .card-4,.hover-shadow:hover{box-shadow: 0 4px 10px 0 rgba(0, 0, 0, 0.2), 0 4px 20px 0 rgba(0, 0, 0, 0.19)}
114 .spin{animation: spin 2s infinite linear}@keyframes spin{0%{transform: rotate(0deg)}100%{transform: rotate(359deg)}}
115 .animate-fading{animation: fading 10s infinite}@keyframes fading{0%{opacity: 0}50%{opacity: 1}100%{opacity: 0}}
116 .animate-opacity{animation: opac 0.8s}@keyframes opac{from{opacity: 0} to{opacity: 1}}
117 .animate-top{position: relative; animation: animatetop 0.4s}@keyframes animatetop{from{top: -300px; opacity: 0} to{top: 0px; opacity: 1}}
118 .animate-left{position: relative; animation: animateleft 0.4s}@keyframes animateleft{from{left: -300px; opacity: 0} to{left: 0px; opacity: 1}}
119 .animate-right{position: relative; animation: animateright 0.4s}@keyframes animateright{from{right: -300px; opacity: 0} to{right: 0px; opacity: 1}}
120 .animate-bottom{position: relative; animation: animatebottom 0.4s}@keyframes animatebottom{from{bottom: -300px; opacity: 0} to{bottom: 0px; opacity: 1}}
121 .animate-zoom {animation: animatezoom 0.6s}@keyframes animatezoom{from{transform: scale(1); opacity: 0} to{transform: scale(2); opacity: 1}}
```

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main3.css

```
121 .animate-zoom {animation:animatezoom 0.6s}@keyframes animatezoom{from{transform:scale(0)} to{transform:scale(1)}}
122 .animate-input{transition:width 0.4s ease-in-out}.animate-input:focus{width:100%!important}
123 .opacity,.hover-opacity:hover{opacity:0.60}.opacity-off,.hover-opacity-off:hover{opacity:1}
124 .opacity-max[opacity:0.25].opacity-min[opacity:0.75]
125 .greyscale-max,.grayscale-max,.hover-greyscale:hover,.hover-grayscale:hover{filter:grayscale(100%)}
126 .greyscale,.grayscale[filter:grayscale(75%)].greyscale-min,.grayscale-min[filter:grayscale(50%)}
127 .sepia{filter:sepia(75%)}.sepia-max,.hover-sepia:hover{filter:sepia(100%)}.sepia-min[filter:sepia(50%)}
128 .tiny{font-size:10px!important}.small{font-size:12px!important}.medium{font-size:15px!important}.large{font-size:20px!important}
129 .xlarge{font-size:24px!important}.xxlarge{font-size:36px!important}.xxxlarge{font-size:48px!important}.jumbo{font-size:60px!important}
130 .left-align{text-align:left!important}.right-align{text-align:right!important}.justify{text-align:justify!important}
131 .border-0[border:0!important].border{border:1px solid #ccc!important}
132 .border-top{border-top:1px solid #ccc!important}.border-bottom{border-bottom:1px solid #ccc!important}
133 .border-left{border-left:1px solid #ccc!important}.border-right{border-right:1px solid #ccc!important}
134 .topbar{border-top:6px solid #ccc!important}.bottombar{border-bottom:6px solid #ccc!important}
135 .leftbar{border-left:6px solid #ccc!important}.rightbar{border-right:6px solid #ccc!important}
136 .section,.code{margin-top:16px!important;margin-bottom:16px!important}
137 .margin[margin:16px!important].margin-top{margin-top:16px!important}.margin-bottom{margin-bottom:16px!important}
138 .margin-left{margin-left:16px!important}.margin-right{margin-right:16px!important}
139 .padding-small{padding:4px 8px!important}.padding{padding:8px 16px!important}.padding-large{padding:12px 24px!important}
140 .padding-16{padding-top:16px!important;padding-bottom:16px!important}.padding-24{padding-top:24px!important}
141 .padding-32{padding-top:32px!important;padding-bottom:32px!important}.padding-48{padding-top:48px!important}
142 .padding-64{padding-top:64px!important;padding-bottom:64px!important}
143 .left{float:left!important}.right{float:right!important}
144 .button:hover{color:#000!important;background-color:#ccc!important}
145 .transparent .hover-none:hover{background-color:transparent!important}
```

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Line 1, Column 1

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```
main3.css
145 .transparent, .hover-none:hover{background-color:transparent!important}
146 .hover-none:hover{box-shadow:none!important}
147 /* Colors */
148 .amber, .hover-amber:hover{color:#000!important;background-color:#ffc107!important}
149 .aqua, .hover-aqua:hover{color:#000!important;background-color:#00ffff!important}
150 .blue, .hover-blue:hover{color:#fff!important;background-color:#2196f3!important}
151 .light-blue, .over-light-blue:hover{color:#000!important;background-color:#87CEEB!important}
152 .brown, .hover-brown:hover{color:#fff!important;background-color:#795548!important}
153 .cyan, .hover-cyan:hover{color:#000!important;background-color:#00bcd4!important}
154 .blue-grey, .hover-blue-grey:hover, .blue-gray, .hover-blue-gray:hover{color:#fff!important;background-color:#4CAF50!important}
155 .green, .hover-green:hover{color:#fff!important;background-color:#4CAF50!important}
156 .light-green, .hover-light-green:hover{color:#000!important;background-color:#8bc34a!important}
157 .indigo, .hover-indigo:hover{color:#fff!important;background-color:#3f51b5!important}
158 .khaki, .hover-khaki:hover{color:#000!important;background-color:#f0e68c!important}
159 .lime, .hover-lime:hover{color:#000!important;background-color:#cddc39!important}
160 .orange, .hover-orange:hover{color:#000!important;background-color:#ff9800!important}
161 .deep-orange, .hover-deep-orange:hover{color:#fff!important;background-color:#ff5722!important}
162 .pink, .hover-pink:hover{color:#fff!important;background-color:#e91e63!important}
163 .purple, .hover-purple:hover{color:#fff!important;background-color:#9c27b0!important}
164 .deep-purple, .hover-deep-purple:hover{color:#fff!important;background-color:#673ab7!important}
165 .red, .hover-red:hover{color:#fff!important;background-color:#f44336!important}
166 .sand, .hover-sand:hover{color:#000!important;background-color:#fdf5e6!important}
167 .teal, .hover-teal:hover{color:#fff!important;background-color:#009688!important}
168 .yellow, .hover-yellow:hover{color:#000!important;background-color:#ffeb3b!important}
169 .white, .hover-white:hover{color:#000!important;background-color:#fff!important}
```

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```
main3.css
169 .white, .hover-white:hover{color:#000!important;background-color:#fff!important}
170 .black, .hover-black:hover{color:#fff!important;background-color:#000!important}
171 .grey, .hover-grey:hover, .gray, .hover-gray:hover{color:#000!important;background-color:#9e9e9e!important}
172 .ht-grey1, .hover-light-grey:hover, .light-grey, .hover-light-gray:hover{color:#000!important;background-color:#dcdcdc!important}
173 .dark-grey, .hover-dark-grey:hover, .dark-gray, .hover-dark-gray:hover{color:#fff!important;background-color:#333333!important}
174 .pale-red, .hover-pale-red:hover{color:#000!important;background-color:#ffdddd!important}
175 .pale-green, .hover-pale-green:hover{color:#000!important;background-color:#ddffdd!important}
176 .pale-yellow, .hover-pale-yellow:hover{color:#000!important;background-color:#ffffcc!important}
177 .pale-blue, .hover-pale-blue:hover{color:#000!important;background-color:#ddffff!important}
178 .text-amber, .hover-text-amber:hover{color:#ffc107!important}
179 .text-aqua, .hover-text-aqua:hover{color:#00ffff!important}
180 .text-blue, .hover-text-blue:hover{color:#2196f3!important}
181 .text-light-blue, .hover-text-light-blue:hover{color:#87CEEB!important}
182 .text-brown, .hover-text-brown:hover{color:#795548!important}
183 .text-cyan, .hover-text-cyan:hover{color:#00bcd4!important}
184 .text-blue-grey, .hover-text-blue-grey:hover, .text-blue-gray, .hover-text-blue-gray:hover{color:#607d8b!important}
185 .text-green, .hover-text-green:hover{color:#4CAF50!important}
186 .text-light-green, .hover-text-light-green:hover{color:#8bc34a!important}
187 .text-indigo, .hover-text-indigo:hover{color:#3f51b5!important}
188 .text-khaki, .hover-text-khaki:hover{color:#b4aa50!important}
189 .text-lime, .hover-text-lime:hover{color:#cddc39!important}
190 .text-orange, .hover-text-orange:hover{color:#ff9800!important}
191 .text-deep-orange, .hover-text-deep-orange:hover{color:#ff5722!important}
192 .text-pink, .hover-text-pink:hover{color:#e91e63!important}
193 .text-purple, .hover-text-purple:hover{color:#9c27b0!important}
```

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Line 1, Column 1

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main3.css

```
193 .text-purple,.hover-text-purple:hover{color:#9c27b0!important}
194 .text-deep-purple,.hover-text-deep-purple:hover{color:#673ab7!important}
195 .text-red,.hover-text-red:hover{color:#f44336!important}
196 .text-sand,.hover-text-sand:hover{color:#fdf5e6!important}
197 .text-teal,.hover-text-teal:hover{color:#009688!important}
198 .text-yellow,.hover-text-yellow:hover{color:#d2be0e!important}
199 .text-white,.hover-text-white:hover{color:#fff!important}
200 .text-black,.hover-text-black:hover{color:#000!important}
201 .text-grey,.hover-text-grey:hover,.text-gray,.hover-text-gray:hover{color:#757575!important}
202 .text-light-grey,.hover-text-light-grey:hover,.text-light-gray,.hover-text-light-gray:hover{color:#f1f1f1!important}
203 .text-dark-grey,.hover-text-dark-grey:hover,.text-dark-gray,.hover-text-dark-gray:hover{color:#3a3a3a!important}
204 .border-amber,.hover-border-amber:hover{border-color:#ffc107!important}
205 .border-aqua,.hover-border-aqua:hover{border-color:#00ffff!important}
206 .border-blue,.hover-border-blue:hover{border-color:#2196F3!important}
207 .border-light-blue,.hover-border-light-blue:hover{border-color:#87CEEB!important}
208 .border-brown,.hover-border-brown:hover{border-color:#795548!important}
209 .border-cyan,.hover-border-cyan:hover{border-color:#00bcd4!important}
210 .border-blue-grey,.hover-border-blue-grey:hover,.border-blue-gray,.hover-border-blue-gray:hover{border-color:#4DB6AC!important}
211 .border-green,.hover-border-green:hover{border-color:#4CAF50!important}
212 .border-light-green,.hover-border-light-green:hover{border-color:#8bc34a!important}
213 .border-indigo,.hover-border-indigo:hover{border-color:#3f51b5!important}
214 .border-khaki,.hover-border-khaki:hover{border-color:#f0e68c!important}
215 .border-lime,.hover-border-lime:hover{border-color:#cdcc39!important}
216 .border-orange,.hover-border-orange:hover{border-color:#ff9800!important}
217 .border-deen-orange,.hover-border-deen-orange:hover{border-color:#ff5722!important}
```

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Line 1, Column 1

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File Edit Selection Find View Goto Tools Project Preferences Help
```

main3.css

```
217 .border-deep-orange,.hover-border-deep-orange:hover{border-color:#ff5722!important}
218 .border-pink,.hover-border-pink:hover{border-color:#e91e63!important}
219 .border-purple,.hover-border-purple:hover{border-color:#9c27b0!important}
220 .border-deep-purple,.hover-border-deep-purple:hover{border-color:#673ab7!important}
221 .border-red,.hover-border-red:hover{border-color:#f44336!important}
222 .border-sand,.hover-border-sand:hover{border-color:#fdf5e6!important}
223 .border-teal,.hover-border-teal:hover{border-color:#009688!important}
224 .border-yellow,.hover-border-yellow:hover{border-color:#ffeb3b!important}
225 .border-white,.hover-border-white:hover{border-color:#fff!important}
226 .border-black,.hover-border-black:hover{border-color:#000!important}
227 .border-grey,.hover-border-grey:hover,.border-gray,.hover-border-gray:hover{border-color:#9e9e9e!important}
228 .border-light-grey,.hover-border-light-grey:hover,.border-light-gray,.hover-border-light-gray:hover{border-color:#bdbdbd!important}
229 .border-dark-grey,.hover-border-dark-grey:hover,.border-dark-gray,.hover-border-dark-gray:hover{border-color:#545454!important}
230 .border-pale-red,.hover-border-pale-red:hover{border-color:#ffe7e7!important}.border-pale-green,.hover-border-pale-green:hover{border-color:#4db6ac!important}
231 .border-pale-yellow,.hover-border-pale-yellow:hover{border-color:#ffffcc!important}.border-pale-blue,.hover-border-pale-blue:hover{border-color:#2196f3!important}
```

```
.img-preview {
    width: 100%;
    height: 256px;
    position: relative;
    margin-top: 1em;
    margin-bottom: 1em;
}
```

```
.img-preview>div {
```

* Aa *** C≡ ☰

Line 1, Column 1

Find Find Prev Find All

master Tab Size: 4 CSS

Windows Search 08:34 PM ENG 13-Jun-20

E:\Smart bridge Internship\IISPS-INT-2749-Garbage-Classification\static\css\main3.css - Sublime Text (UNREGISTERED)

```
main3.css
238 margin-bottom: 1em;
239 }
240
241 .img-preview>div {
242     width: 100%;
243     height: 100%;
244     background-size: 256px 256px;
245     background-repeat: no-repeat;
246     background-position: center;
247 }
248
249 input[type="file"] {
250     display: none;
251 }
252
253 .upload-label{
254     display: inline-block;
255     padding: 12px 30px;
256     background: #39D2B4;
257     color: #fff;
258     font-size: 1em;
259     transition: all .4s;
260     cursor: pointer;
261 }
262
```

* Aa *** C≡ ⌂

Line 1, Column 1

Find Find Prev Find All

master Tab Size: 4 CSS

Search

Windows Taskbar: File Explorer, Chrome, Word, Sublime Text, Task View, Taskbar Icons, Network, Sound, Battery, Date/Time

E:\Smart bridge Internship\IISPS-INT-2749-Garbage-Classification\static\css\main3.css - Sublime Text (UNREGISTERED)

```
main3.css
263 .upload-label:hover{
264     background: #34495E;
265     color: #39D2B4;
266 }
267
268 .loader {
269     border: 8px solid #f3f3f3; /* Light grey */
270     border-top: 8px solid #3498db; /* Blue */
271     border-radius: 50%;
272     width: 50px;
273     height: 50px;
274     animation: spin 1s linear infinite;
275 }
276
277 @keyframes spin {
278     0% { transform: rotate(0deg); }
279     100% { transform: rotate(360deg); }
280 }
281
282
283 * {box-sizing: border-box;}
284 body {font-family: Verdana, sans-serif;}
285 .mySlides {display: none;}
286 img {vertical-align: middle;}
```

* Aa *** C≡ ⌂

Line 1, Column 1

Find Find Prev Find All

master Tab Size: 4 CSS

Search

Windows Taskbar: File Explorer, Chrome, Word, Sublime Text, Task View, Taskbar Icons, Network, Sound, Battery, Date/Time

E:\Smart bridge Internship\IISPS-INT-2749-Garbage-Classification\static\css\main3.css - Sublime Text (UNREGISTERED)

```
File Edit Selection Find View Goto Tools Project Preferences Help
main3.css
287
288 /* Slideshow container */
289 .slideshow-container {
290   max-width: 1000px;
291   position: relative;
292   margin: auto;
293 }
294
295 /* Caption text */
296 .text {
297   color: #f2f2f2;
298   font-size: 15px;
299   padding: 8px 12px;
300   position: absolute;
301   bottom: 8px;
302   width: 100%;
303   text-align: center;
304 }
305
306 /* Number text (1/3 etc) */
307 .numbertext {
308   color: #f2f2f2;
309   font-size: 12px;
310   padding: 8px 12px;
311 }
```

* Aa * Search Find Find Prev Find All

Line 1, Column 1

master Tab Size: 4 CSS

08:35 PM 13-Jun-20

E:\Smart bridge Internship\IISPS-INT-2749-Garbage-Classification\static\css\main3.css - Sublime Text (UNREGISTERED)

```
File Edit Selection Find View Goto Tools Project Preferences Help
main3.css
310   position: absolute;
311   top: 0;
312 }
313
314 /* The dots/bullets/indicators */
315 .dot {
316   height: 15px;
317   width: 15px;
318   margin: 0 2px;
319   background-color: #bbb;
320   border-radius: 50%;
321   display: inline-block;
322   transition: background-color 0.6s ease;
323 }
324
325 .active {
326   background-color: #717171;
327 }
328
329 /* Fading animation */
330 .fade {
331   -webkit-animation-name: fade;
332   -webkit-animation-duration: 1.5s;
333   animation-name: fade;
334 }
```

* Aa * Search Find Find Prev Find All

Line 1, Column 1

master Tab Size: 4 CSS

08:36 PM 13-Jun-20

E:\Smart bridge Internship\IISPS-INT-2749-Garbage-Classification\static\css\main3.css - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

```

main3.css
329
330 /* Fading animation */
331 .fade {
332   -webkit-animation-name: fade;
333   -webkit-animation-duration: 1.5s;
334   animation-name: fade;
335   animation-duration: 1.5s;
336 }
337
338 @-webkit-keyframes fade {
339   from {opacity: .4}
340   to {opacity: 1}
341 }
342
343 @keyframes fade {
344   from {opacity: .4}
345   to {opacity: 1}
346 }
347
348 /* On smaller screens, decrease text size */
349 @media only screen and (max-width: 300px) {
350   .text {font-size: 11px}
351 }

```

Line 1, Column 1

Find Find Prev Find All

Windows Search 08:36 PM ENG 13-Jun-20

5. main.js

Spyder (Python 3.7)

File Edit Search Source Run Debug Consoles Projects Tools View Help

E:\Smart bridge Internship\Garbage Classification\Main\Static\js\main.js

base.html Preprocessed.py Model.py App.py main.js

```

$(document).ready(function () {
    // Init
    $('.image-section').hide();
    $('.loader').hide();
    $('#result').hide();

    // Upload Preview
    function readURL(input) {
        if (input.files & input.files[0]) {
            var reader = new FileReader();
            reader.onload = function (e) {
                $('#imagePreview').css('background-image', 'url(' + e.target.result + ')');
                $('#imagePreview').hide();
                $('#imagePreview').fadeIn(650);
            }
            reader.readAsDataURL(input.files[0]);
        }
    }
    $('#imageUpload').change(function () {
        $('.image-section').show();
        $('#btn-predict').show();
        $('#result').text('');
        $('#result').hide();
        readURL(this);
    });

    // Predict
    $('#btn-predict').click(function () {
        var form_data = new FormData($('#upload-file')[0]);

        // Show loading animation
        $(this).hide();
        $('.loader').show();

        // Make prediction by calling api /predict
        $.ajax({
            type: 'POST',

```

Name Date Modified

- __pycache__ 12-Jun-20 02:46 PM
- garbage.h5 10-Jun-20 01:51 PM
- Model.py 10-Jun-20 04:09 PM
- Preprocessed.py 10-Jun-20 08:37 AM
- static 12-Jun-20 02:46 PM
- templates 12-Jun-20 02:46 PM
- uploads 13-Jun-20 06:50 PM
- User Interface 13-Jun-20 07:24 PM
- App.py 13-Jun-20 06:49 PM

Console 1/A

```

Model loaded Check http://localhost:5000/
* Serving Flask app "App" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a
  production deployment.
  Use a production WSGI server instead.
* Debug mode: on
* Restarting with windowsapi reloader
In [2]:

```

IPython console History

conda: base (Python 3.7.7) Line 1, Col 1 ASCII LF RW Mem 52%

Windows Search 09:28 PM ENG 13-Jun-20

Spyder (Python 3.7)

File Edit Search Source Run Debug Consoles Projects Tools View Help

E:\Smart bridge Internship\Garbage Classification\Main\Static\js\main.js

base.html Preprocessed.py Model.py App.py main.js

```

36     $.ajax({
37         type: 'POST',
38         url: '/predict',
39         data: form_data,
40         contentType: false,
41         cache: false,
42         processData: false,
43         async: true,
44         success: function (data) {
45             // Get and display the result
46             $('#Loader').hide();
47             $('#result').fadeIn(600);
48             $('#result').text('' + data);
49             console.log('Success!');
50         },
51     });
52 });
53 });
54 });
55 var slideIndex = 0;
56 showSlides();
57
58 function showSlides() {
59     var i;
60     var slides = document.getElementsByClassName("mySlides");
61     for (i = 0; i < slides.length; i++) {
62         slides[i].style.display = "none";
63     }
64     slideIndex++;
65     if (slideIndex > slides.length) {slideIndex = 1}
66
67     slides[slideIndex-1].style.display = "block";
68     setTimeout(showSlides, 3000); // Change image every 2 seconds
69 }
70 }
71

```

Name Date Modified

- __pycache__ 12-Jun-20 02:46 PM
- garbage.h5 10-Jun-20 01:51 PM
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- App.py 13-Jun-20 06:49 PM

Files Variable explorer Help Plots

Console 1/A

```

Model loaded Check http://localhost:5000/
* Serving Flask app "App" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a
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  Use a production WSGI server instead.
* Debug mode: on
* Restarting with windowsapi reloader

```

In [2]:

IPython console History

conda: base (Python 3.7.7) Line 1, Col 1 ASCII LF RW Mem 52%

Search

Windows Taskbar: Search, File Explorer, Google Chrome, Microsoft Word, Microsoft Edge, File Manager, Task View, Taskbar Icons, Taskbar Buttons.

6. btns10.css

Spyder (Python 3.7)

File Edit Search Source Run Debug Consoles Projects Tools View Help

E:\Smart bridge Internship\SPS-INT-2749-Garbage-Classification\static\css\bttns10.css

base.html Preprocessed.py Model.py App.py main.js bttns10.css

```

1 element.style {
2 }
3 .btn:not(:disabled):not(.disabled) {
4     cursor: pointer;
5 }
6 [type=reset], [type=submit], button, html [type=button] {
7     -webkit-appearance: button;
8 }
9 .btn, .button {
10     -webkit-touch-callout: none;
11     -webkit-user-select: none;
12     -khtml-user-select: none;
13     -moz-user-select: none;
14     -ms-user-select: none;
15     user-select: none;
16 }
17 .btn, .button {
18     border: none;
19     display: inline-block;
20     padding: 8px 16px;
21     vertical-align: middle;
22     overflow: hidden;
23     text-decoration: none;
24     color: inherit;
25     background-color: inherit;
26     text-align: center;
27     cursor: pointer;
28     white-space: nowrap;
29 }
30 button, [type=button], [type=reset], [type=submit] {
31     -webkit-appearance: button;
32 }
33 .btn-group-lg>.btn, .btn-lg {
34     padding: .5rem 1rem;
35     font-size: 1.25rem;
36     line-height: 1.5;

```

Name Date Modified

- images 13-Jun-20 07:09 PM
- js 12-Jun-20 02:46 PM
- jquery1.min.js 11-Jun-20 10:49 PM
- main.js 13-Jun-20 06:08 PM
- profile.js 12-Jun-20 03:11 AM
- templates 12-Jun-20 02:46 PM
- uploads 13-Jun-20 06:50 PM
- User Interface 13-Jun-20 07:24 PM
- App.py 13-Jun-20 06:49 PM

Files Variable explorer Help Plots

Console 1/A

```

Model loaded Check http://localhost:5000/
* Serving Flask app "App" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a
  production deployment.
  Use a production WSGI server instead.
* Debug mode: on
* Restarting with windowsapi reloader

```

In [2]:

IPython console History

conda: base (Python 3.7.7) master Line 1, Col 1 ASCII CRLF RW Mem 51%

Search

Windows Taskbar: Search, File Explorer, Google Chrome, Microsoft Word, Microsoft Edge, File Manager, Task View, Taskbar Icons, Taskbar Buttons.

Spyder (Python 3.7)

File Edit Search Source Run Debug Consoles Projects Tools View Help

E:\Smart bridge Internship\SPS-INT-2749-Garbage-Classification\static\css\bttns10.css

base.html Preprocessed.py Model.py App.py main.js bttns10.css

```
34 padding: .5rem 1rem;
35 font-size: 1.25rem;
36 line-height: 1.5;
37 border-radius: .3rem;
38 }
39 .btn-info {
40   color: #fff;
41   background-color: #17a2b8;
42   border-color: #17a2b8;
43 }
44 .btn {
45   display: inline-block;
46   font-weight: 400;
47   text-align: center;
48   white-space: nowrap;
49   vertical-align: middle;
50   -webkit-user-select: none;
51   -moz-user-select: none;
52   -ms-user-select: none;
53   user-select: none;
54   border: 1px solid transparent;
55   padding: .375rem .75rem;
56   font-size: 1rem;
57   line-height: 1.5;
58   border-radius: .25rem;
59   transition: color .15s ease-in-out,background-color .15s ease-in-out,border-color .15s ease-in-out,box-shad
60 }
61 button, select {
62   text-transform: none;
63 }
64 button, input {
65   overflow: visible;
66 }
67 button, input, select, textarea, optgroup {
68   font: inherit;
69   margin: 0;
70 }
71 button, select {
72   text-transform: none;
73 }
74 button, input {
75   overflow: visible;
76 }
77 button, input, optgroup, select, textarea {
78   margin: 0;
79   font-family: inherit;
80   font-size: inherit;
81   line-height: inherit;
82 }
83 button {
84   border-radius: 0;
85 }
86 *, *:before, *:after {
87   box-sizing: inherit;
88 }
89 *, ::after, ::before {
90   box-sizing: border-box;
91 }
92 user agent stylesheet
button {
93   -webkit-appearance: button;
94   -webkit-writing-mode: horizontal-tb !important;
95   text-rendering: auto;
96   color: -internal-light-dark-color(buttontext, rgb(170, 170, 170));
97   letter-spacing: normal;
98   word-spacing: normal;
99   text-transform: none;
100  text-indent: 0px;
101  text-shadow: none;
```

Name Date Modified

- images 13-Jun-20 07:09 PM
- js 12-Jun-20 02:46 PM
 - jquery1.min.js 11-Jun-20 10:49 PM
 - main.js 13-Jun-20 06:08 PM
 - profile.js 12-Jun-20 03:11 AM
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- User Interface 13-Jun-20 07:24 PM
- App.py 13-Jun-20 06:49 PM

Console 1/A

```
Model loaded Check http://localhost:5000/
* Serving Flask app "App" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a
  production deployment.
  Use a production WSGI server instead.
* Debug mode: on
* Restarting with windowsapi reloader
```

In [2]:

IPython console History

conda: base (Python 3.7.7) master Line 1, Col 1 ASCII CRLF RW Mem 51% 09:32 PM 13-Jun-20

Spyder (Python 3.7)

File Edit Search Source Run Debug Consoles Projects Tools View Help

E:\Smart bridge Internship\SPS-INT-2749-Garbage-Classification\static\css\bttns10.css

base.html Preprocessed.py Model.py App.py main.js bttns10.css

```
67 button, input, select, textarea, optgroup {
68   font: inherit;
69   margin: 0;
70 }
71 button, select {
72   text-transform: none;
73 }
74 button, input {
75   overflow: visible;
76 }
77 button, input, optgroup, select, textarea {
78   margin: 0;
79   font-family: inherit;
80   font-size: inherit;
81   line-height: inherit;
82 }
83 button {
84   border-radius: 0;
85 }
86 *, *:before, *:after {
87   box-sizing: inherit;
88 }
89 *, ::after, ::before {
90   box-sizing: border-box;
91 }
92 user agent stylesheet
button {
93   -webkit-appearance: button;
94   -webkit-writing-mode: horizontal-tb !important;
95   text-rendering: auto;
96   color: -internal-light-dark-color(buttontext, rgb(170, 170, 170));
97   letter-spacing: normal;
98   word-spacing: normal;
99   text-transform: none;
100  text-indent: 0px;
101  text-shadow: none;
```

Name Date Modified

- images 13-Jun-20 07:09 PM
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 - main.js 13-Jun-20 06:08 PM
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- App.py 13-Jun-20 06:49 PM

Console 1/A

```
Model loaded Check http://localhost:5000/
* Serving Flask app "App" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a
  production deployment.
  Use a production WSGI server instead.
* Debug mode: on
* Restarting with windowsapi reloader
```

In [2]:

IPython console History

conda: base (Python 3.7.7) master Line 1, Col 1 ASCII CRLF RW Mem 51% 09:32 PM 13-Jun-20

Spyder (Python 3.7)

File Edit Search Source Run Debug Consoles Projects Tools View Help

E:\Smart bridge Internship\SPS-INT-2749-Garbage-Classification\static\css\btrn10.css

base.html Preprocessed.py Model.py App.py main.js btrn10.css

```

103   display: inline-block;
104   text-align: center;
105   align-items: flex-start;
106   cursor: default;
107   background-color: -internal-light-dark-color(rgb(239, 239, 239), rgb(74, 74, 74));
108   box-sizing: border-box;
109   margin: 0em;
110   font: 400 13.333px Arial;
111   padding: 1px 6px;
112   border-width: 2px;
113   border-style: outset;
114   border-color: -internal-light-dark-color(rgb(118, 118, 118), rgb(195, 195, 195));
115   border-image: initial;
116 }
117 .card {
118   position: relative;
119   display: -webkit-box;
120   display: -ms-flexbox;
121   display: flex;
122   -webkit-box-orient: vertical;
123   -webkit-box-direction: normal;
124   -ms-flex-direction: column;
125   flex-direction: column;
126   min-width: 0;
127   word-wrap: break-word;
128   background-color: #fff;
129   background-clip: border-box;
130   border: 1px solid rgba(0,0,0,.125);
131   border-radius: .25rem;
132 }
133 body, h1, h2, h3, h4, h5 {
134   font-family: "Raleway", sans-serif;
135 }
136 html, body {
137   font-family: Verdana,sans-serif;
138   font-size: 15px;

```

Name Date Modified

- images 13-Jun-20 07:09 PM
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Console 1/A

```

Model loaded Check http://localhost:5000/
* Serving Flask app "App" (lazy loading)
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* Debug mode: on
* Restarting with windowsapi reloader

```

In [2]:

IPython console History

conda: base (Python 3.7.7) master Line 1, Col 1 ASCII CRLF RW Mem 51%

Search

Spyder (Python 3.7)

File Edit Search Source Run Debug Consoles Projects Tools View Help

E:\Smart bridge Internship\SPS-INT-2749-Garbage-Classification\static\css\btrn10.css

base.html Preprocessed.py Model.py App.py main.js btrn10.css

```

130   border: 1px solid rgba(0,0,0,.125);
131   border-radius: .25rem;
132 }
133 body, h1, h2, h3, h4, h5 {
134   font-family: "Raleway", sans-serif;
135 }
136 html, body {
137   font-family: Verdana,sans-serif;
138   font-size: 15px;
139   line-height: 1.5;
140 }
141 body {
142   margin: 0;
143   font-family: -apple-system,BlinkMacSystemFont,"Segoe UI",Roboto,"Helvetica Neue",Arial,sans-serif,"Apple Color
144   font-size: 1rem;
145   font-weight: 400;
146   line-height: 1.5;
147   color: #212529;
148   text-align: left;
149   background-color: #fff;
150 }
151 :root {
152   --blue: #007bff;
153   --indigo: #6610f2;
154   --purple: #6f42c1;
155   --pink: #e83e8c;
156   --red: #dc3545;
157   --orange: #fd7e14;
158   --yellow: #ffc107;
159   --green: #28a745;
160   --teal: #20c997;
161   --cyan: #17a2b8;
162   --white: #fff;
163   --gray: #6c757d;
164   --gray-dark: #343a40;
165   --primary: #007bff;

```

Name Date Modified

- images 13-Jun-20 07:09 PM
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Console 1/A

```

Model loaded Check http://localhost:5000/
* Serving Flask app "App" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a
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  Use a production WSGI server instead.
* Debug mode: on
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```

In [2]:

IPython console History

conda: base (Python 3.7.7) master Line 1, Col 1 ASCII CRLF RW Mem 51%

Search

The screenshot shows the Spyder IDE interface. The top menu bar includes File, Edit, Search, Source, Run, Debug, Consoles, Projects, Tools, View, and Help. The title bar indicates the project path: E:\Smart bridge Internship\SPS-INT-2749-Garbage-Classification\static\css\bttns10.css. The left sidebar lists files: base.html, Preprocessed.py, Model.py, App.py, main.js, and bttns10.css. The main code editor displays the content of bttns10.css. On the right, there's a file explorer showing a directory structure with files like jquery1.min.js, main.js, profile.js, templates, uploads, User Interface, and App.py. Below the file explorer is a console window showing Python startup logs and an IPython console tab.

```

170    --danger: #dc3545;
171    --light: #f8f9fa;
172    --dark: #343a40;
173    --breakpoint-xs: 0;
174    --breakpoint-sm: 576px;
175    --breakpoint-md: 768px;
176    --breakpoint-lg: 992px;
177    --breakpoint-xl: 1200px;
178    --font-family-sans-serif: -apple-system,BlinkMacSystemFont,"Segoe UI",Roboto,"Helvetica Neue",Arial,sans-serif;
179    --font-family-monospace: SFMono-Regular,Menlo,Monaco,Consolas,"Liberation Mono","Courier New",monospace;
180  }
181 html {
182   -ms-text-size-adjust: 100%;
183   -webkit-text-size-adjust: 100%;
184 }
185 html {
186   font-family: sans-serif;
187   line-height: 1.15;
188   -webkit-text-size-adjust: 100%;
189   -ms-text-size-adjust: 100%;
190   -ms-overflow-style: scrollbar;
191   -webkit-tap-highlight-color: transparent;
192 }
193 *, *:before, *:after {
194   box-sizing: inherit;
195 }
196 *, ::after, ::before {
197   box-sizing: border-box;
198 }
199 *, *:before, *:after {
200   box-sizing: inherit;
201 }
202 *, ::after, ::before {
203   box-sizing: border-box;
204 }

```

7. main2.css

This screenshot is similar to the previous one but shows the main2.css file open in the code editor. The file contains CSS declarations for the Raleway font, including @font-face rules for both regular and bold weights. The file explorer on the right shows the main2.css file selected. The IPython console shows the same startup logs as before.

```

1 /* latin-ext */
2 @font-face {
3   font-family: 'Raleway';
4   font-style: normal;
5   font-weight: 400;
6   src: local('Raleway'), local('Raleway-Regular'), url(1Ptug8zYS_SKggPNyCMIT5lu.woff2) format('woff2');
7   unicode-range: U+0100-024F, U+0259, U+E00-1EFF, U+2020, U+20A0-20AB, U+20AD-20CF, U+2113, U+2C60-2C7F, U+A720-A
8 }
9 /* latin */
10 @font-face {
11   font-family: 'Raleway';
12   font-style: normal;
13   font-weight: 400;
14   src: local('Raleway'), local('Raleway-Regular'), url(1Ptug8zYS_SKggPNyCMIT5lu.woff2) format('woff2');
15   unicode-range: U+0000-00FF, U+0131, U+0152-0153, U+02BB-02BC, U+02C6, U+02DA, U+2000-206F, U+2074, U+20A
16 }

```

8. jquery1.min.js

Spyder (Python 3.7)

E:\Smart bridge Internship\ISPS-INT-2749-Garbage-Classification\static\js\jquery1.min.js

```
1 /*! jQuery v2.1.1 | (c) 2005, 2014 jQuery Foundation, Inc. | jquery.org/license */
2 !(function(a,b){"object"==typeof module&&"object"==typeof module.exports?module.exports=a.document?b(a,!0):function(
3 ),data:function(a,b,c){return L.access(a,b,c)},removeData:function(a,b){L.remove(a,b)},n.fn.extend({data:functi
4 },removeAttr:function(a,b){var c,d,e=0,f=b&b.match(E);if(f&&1==a.nodeType)while(c=f[e++])d=n.propFix[c]||c,n.expr
```

File Edit Search Source Run Debug Consoles Projects Tools View Help

base.html Preprocessed.py Model.py App.py main.js btns10.css main2.css jquery1.min.js

Name Date Modified

- images 13-Jun-20 07:09 PM
- js 12-Jun-20 02:46 PM
- jquery1.min.js 11-Jun-20 10:49 PM
 - main.js 13-Jun-20 06:08 PM
 - profile.js 12-Jun-20 03:11 AM
- templates 12-Jun-20 02:46 PM
- uploads 13-Jun-20 06:50 PM
- User Interface 13-Jun-20 07:24 PM
- App.py 13-Jun-20 06:49 PM

Files Variable explorer Help Plots

Console 1/A

```
Model loaded Check http://localhost:5000/
* Serving Flask app "App" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a
  production deployment.
  Use a production WSGI server instead.
* Debug mode: on
* Restarting with windowsapi reloader
```

In [2]:

IPython console History

conda: base (Python 3.7.7) master Line 1, Col 1 ASCII CRLF RW Mem 49%

Windows Taskbar: Search, File Explorer, Google Chrome, Microsoft Edge, File Manager, Spyder, Task View, Taskbar Icons, Network, System, Taskbar Buttons.

9. profile.js

Spyder (Python 3.7)

E:\Smart bridge Internship\ISPS-INT-2749-Garbage-Classification\static\js\profile.js

```
1 /* Auto generated, hash = 2xn-98u0iux6h5q91kxqv5q */
2 (function(c){c.LIRenderAll=function(){function t(a){return Array.prototype.slice.call(a.attributes).filter(function(k=a.getAttribute("data-entity"),l=a.getAttribute("data-iscreate"),f=Math.round(1E6*Math.random()),h?:"https://badc
3 encodeURIComponent(d)),b.push("trk|x3d"+encodeURIComponent("profile-badge")),b.push("vanityname|x3d"+encodeURIComponentc
4 document.createElement("script"),b=a.attributes.length-1;0<=b;j-->d.setAttribute(a.attributes[b].name,a.attributes[
5 function(a,d){m++;var b,e,c,f;b=0;for(l=g.length;b<l;b++)e=g[b],f=e.getAttribute("data-iscreate"),c=parseInt(e.getAttribute("data-iscreate"))}
```

File Edit Search Source Run Debug Consoles Projects Tools View Help

base.html Preprocessed.py Model.py App.py main.js btns10.css main2.css jquery1.min.js profile.js

Name Date Modified

- images 13-Jun-20 07:09 PM
- js 12-Jun-20 02:46 PM
- jquery1.min.js 11-Jun-20 10:49 PM
 - main.js 13-Jun-20 06:08 PM
 - profile.js 12-Jun-20 03:11 AM
- templates 12-Jun-20 02:46 PM
- uploads 13-Jun-20 06:50 PM
- User Interface 13-Jun-20 07:24 PM
- App.py 13-Jun-20 06:49 PM

Files Variable explorer Help Plots

Console 1/A

```
Model loaded Check http://localhost:5000/
* Serving Flask app "App" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a
  production deployment.
  Use a production WSGI server instead.
* Debug mode: on
* Restarting with windowsapi reloader
```

In [2]:

IPython console History

conda: base (Python 3.7.7) master Line 1, Col 1 ASCII CRLF RW Mem 50%

Windows Taskbar: Search, File Explorer, Google Chrome, Microsoft Edge, File Manager, Spyder, Task View, Taskbar Icons, Network, System, Taskbar Buttons.

10. App.py

The screenshot shows the Spyder Python 3.7 IDE interface. The main area displays the `App.py` file content:

```
from __future__ import division, print_function
import numpy as np
import os
from tensorflow.python.keras.backend import set_session
from keras.preprocessing import image
from keras.models import load_model
import tensorflow as tf
import webbrowser
import time

sess = tf.Session()
global graph
graph = tf.get_default_graph()
from flask import Flask, request, render_template
from werkzeug.utils import secure_filename
from gevent.pywsgi import WSGIServer

app = Flask(__name__)

set_session(sess)
model = load_model("Preprocessed and Model/garbage.h5")

print('Model Loaded Check http://localhost:5000/')

@app.route('/', methods=['GET'])
def index():
    return render_template('base.html')

time.sleep(5)
webbrowser.open_new("http://localhost:5000/")

@app.route('/predict', methods=['POST'])
def upload():
    if request.method == 'POST':
        f = request.files['image']
        print("current path")

        basepath = os.path.dirname(__file__)
        print("current path", basepath)

        file_path = os.path.join(basepath, 'uploads', secure_filename(f.filename))
        print("upload folder is", file_path)
        f.save(file_path)

        img = image.load_img(file_path, target_size=(64, 64))
        x = image.img_to_array(img)
        x = np.expand_dims(x, axis=0)

        with graph.as_default():
            set_session(sess)
            preds = model.predict_classes(x)
            print("prediction", preds)

        index = ['Cardboard', 'Glass', 'Metal', 'Paper', 'Plastic', 'Trash']

        text = "The predicted garbage is : " + str(index[preds[0]])

        return text

if __name__ == '__main__':
    app.run(debug=True, threaded=False)
```

The right side of the interface shows the file tree for the project:

- images
- js
 - jquery1.min.js
 - main.js
 - profile.js
- templates
- uploads
- User Interface
- App.py

The IPython console output shows:

```
Model loaded Check http://localhost:5000/
* Serving Flask app "App" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a
  production deployment.
  Use a production WSGI server instead.
* Debug mode: on
* Restarting with windowsapi reloader
```

The status bar at the bottom indicates: LSP Python: ready, conda: base (Python 3.7.7), master, Line 45, Col 57, ASCII, CRLF, RW, Mem 49%.

This screenshot is identical to the one above, showing the same code in `App.py` and the same file structure in the sidebar. The IPython console output is also identical, indicating the model has been loaded and the application is running on port 5000.