

SPRINT 1

Project Deliverables (Code & Test Cases)

Date	04 November 2022
Team ID	PNT2022TMID50914
Project Name	Efficient Water Quality Analysis & Prediction using Machine Learning

HTML (Frontend):

In this sprint t , we have created a html code that is going to display on user's screen

Visual Studio Code interface showing a web application project named "Water Quality". The Explorer sidebar on the left displays the project structure, including a "templates" folder containing "home.html". The main editor area shows the "home.html" file, which contains HTML code for a web page titled "Water Quality". The code includes a Bootstrap CSS link, a style block for a login form, and a form element with a POST action.

```
1 <!doctype html>
2 <html>
3 <head>
4
5 <title> Water Quality </title>
6 <!-- Bootstrap -->
7 <link href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/css/bootstrap.min.css"
8     rel="stylesheet"
9     integrity="sha256-MfvZlkHCEqatNoGiOxveE8FIwMzZg4WB5qfrfIFBFYc= sha512-dTfge/zgoMYpP7QbHy4gWMEGsbdsdZeCXz7irItjcC3sPUFtf0kuFbDz/ixG7ArTxdJLXDmezHubeNikyKGVyQ=="
10    crossorigin="anonymous">
11
12 <style>
13 input{
14     text-align: center;
15     width: 20%;
16     height: 70px;
17     font-size: 14px;
18     padding-top: 0px ;
19 }
20 .thick {
21     text-decoration-line: underline;
22     text-decoration-style: solid;
23     text-decoration-color: blue
24     text-decoration-thickness: 2px;
25 }
26 </style>
27 </head>
28 <body style="background-color: powderblue;">
29
30 <div class="login">
31
32 <form action="{{ url_for('predict')}}" method="post">
```

The TERMINAL panel at the bottom shows the output of the application, including a warning about using a development server and a message about the StandardScaler estimator.

```
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
* Restarting with stat
C:\Users\HOME\AppData\Local\Programs\Python\Python39\lib\site-packages\sklearn\base.py:329: UserWarning: Trying to unpickle estimator StandardScaler from version 0.24.0 when using version 1.1.3. This might l
ead to breaking code or invalid results. Use at your own risk. For more info please refer to:
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
warnings.warn(
* Debugger is active!
* Debugger PIN: 873-600-839
127.0.0.1 - - [11/Nov/2022 13:57:12] "GET / HTTP/1.1" 200 -
C:\Users\HOME\AppData\Local\Programs\Python\Python39\lib\site-packages\sklearn\base.py:443: UserWarning: X has feature names, but StandardScaler was fitted without
warnings.warn(
127.0.0.1 - - [11/Nov/2022 13:57:43] "POST /predict HTTP/1.1" 200 -
```

Windows taskbar at the bottom shows the time as 02:48 PM on 11-11-2022.

Visual Studio Code interface showing a web application project named "Water Quality". The Explorer sidebar on the left lists files: static, templates, app.py, model.pkl, my_scaler.save, Profile, requirements.txt, water_potability.csv, and Water_quality.ipynb. The "templates" folder is expanded, showing "home.html" with 2 errors.

The main editor displays the content of "home.html", which is an HTML form for water quality testing. The form includes input fields for pH value, Hardness, Solids, Chloramines, Sulfate, Conductivity, Organic carbon, Trihalomethanes, and Turbidity. Each input field has a placeholder and a style attribute. The form also includes a "Show button" and a "Water quality Test" button. The footer section lists team members: Arvind P(142219205009), Gowtham P(142219205025), Leonard M(142219205053), and Arunprasath S (142219205008). It also provides contact information for Gowtham Ponnaraj and a GitHub link.

The bottom panel shows the TERMINAL output, which includes a warning about using a development server and a message about the StandardScaler estimator. The output also shows the results of a GET request to the /predict endpoint.

WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Open file in editor (ctrl + click)
C:\Users\HOME\AppData\Local\Programs\Python\Python39\lib\site-packages\sklearn\base.py:329: UserWarning: Trying to unpickle estimator StandardScaler from version 0.24.0 when using version 1.1.3. This might lead to breaking code or invalid results. Use at your own risk. For more info please refer to: https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
warnings.warn(
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127.0.0.1 - - [11/Nov/2022 13:57:12] "GET / HTTP/1.1" 200 -
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warnings.warn(
127.0.0.1 - - [11/Nov/2022 13:57:43] "POST /predict HTTP/1.1" 200 -

Activate Windows
Go to Settings to activate Windows.

Water Quality_prediction

By PNT2022TMD21875

Enter values

pH value : Hardness : Solids :

Chloramines : Sulfate : Conductivity :

Organic_carbon : Trihalomethanes : Turbidity :

Water quality Test

water is safe for human consumption

Team Members: Arvind P(142219205009) - Gowtham P(142219205025) - Leonard M(142219205053) - Arunprasath S (142219205008)
for any queries contact gowthamponraj@gmail.com
[Github link](#)

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Data Collection and Preprocessing:

- We have collected data from various sources like sample readings from our college chemistry lab , Kaggle and sources from google
- We have also wrote a preprocessing code to clean , transform , remove the duplicates and intergrate (consolidate) into a single dataset to feed it into the ML model to train the model

IBM-Project-12969-1659503743 x IBM-Project-34997-1660280431 x IBM-Project-18872-1659690963 x Water Quality x IBM x Project Deliverables Submission x Water Quality Prediction (7 model x +

kaggle.com/code/imakash3011/water-quality-prediction-7-model/data

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kaggle

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Water Quality Prediction (7 model)

Notebook Data Logs Comments (45)

50 Copy & Edit 136



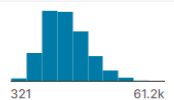

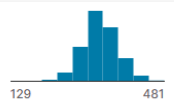

water_potability.csv (525.19 kB)

Detail Compact Column 10 of 10 columns

About this file

ppm: parts per million
µg/L: microgram per litre
mg/L: milligram per litre

Column description:

# pH	# Hardness	# Solids	# Chloramines	# Sulfate	# Condu
pH of water	Capacity of water to precipitate soap in mg/L	Total dissolved solids in ppm	Amount of Chloramines in ppm	Amount of Sulfates dissolved in mg/L	Electrical water in p
					
0 14	47.4 323	321 61.2k	0.35 13.1	129 481	181
	204.8904554713363	20791.318980747026	7.300211873184757	368.51644134988336	564.3080
3.71608007538699	129.42292051494425	18630.057857970347	6.635245883862		592.8850
8.099124189298397	224.23625939355776	19909.541732292393	9.275883602694089		418.6060
8.316765884214679	214.37339408562252	22018.417440775294	8.05933237743854	356.88613564305666	363.2660
9.092223456290965	181.10150923612525	17978.98633892625	6.546599974207941	310.13573752420444	398.4100
5.584086638456089	188.3133237696164	28748.68773904612	7.54486878877965	326.6783629116736	280.4670

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02:55 PM 11-11-2022

FileEditSelectionViewGoRunTerminalHelp

water_potability.csv - Water Quality - Visual Studio Code

EXPLORER

app.pyWater_quality.ipynbhome.html 2water_potability.csv

WATER QUALITY

static

templates

home.html2

app.py

model.pkl

my_scaler.save

Profile

requirements.txt

water_potability.csv

Water_quality.ipynb

1ph,Hardness,Solids,Chloramines,Sulfate,Conductivity,Organic_carbon,Trihalomethanes,Turbidity,Potability

2,204.8904554713363,20791.318980747026,7.300211873184757,368.51644134980336,564.3086541722439,10.3797830780847,86.9909704615088,2.9631353806316407,0

33.71688807538699,129.42292051494425,18630.057857970347,6.635245883862,592.8853591348523,15.188013116357259,56.32907628451764,4.500656274942408,0

48.099124189298397,224.23625939355776,19909.541732292393,9.275883602694089,418.6062130644815,16.868636929550973,66.42009251176368,3.0559337496641685,0

58.316765884214679,214.37339408562252,22018.417440775294,8.05933237743854,356.88613564305666,363.2665161642437,18.436524495493302,100.34167436508008,4.628770536837084,0

69.092223456290965,181.10150923612525,17978.98633892625,6.546599974207941,310.13573752420444,398.41081338184466,11.558279443446395,31.997992727424737,4.075075425430034,0

75.5840886638456089,188.3133237696164,28748.68773904612,7.54486878877965,326.6783629116736,280.4679159334877,8.399734640152758,54.917861841994466,2.5597082275565217,0

810.223862164528773,248.07173527013992,28749.716543528233,7.5134084658313025,393.66339551509645,283.6516335078445,13.789695317510886,84.60355617402357,2.672988736934779,0

98.635848718500734,203.36152258457054,13672.091763901635,4.563008685599703,303.3097711592812,474.60764494244853,12.36381669870525,62.798308962925155,4.401424715445482,0

10118.98857990025189,14285.583854224515,7.804173553073094,268.646940746221,389.3755658712614,12.70604896865791,53.928845767512236,3.5950171809576155,0

1111.180284470721592,227.23146923797458,25484.50849098786,9.077200016914393,404.04163468408996,563.8854814810949,17.92780641128502,71.97660103221915,4.370561936655497,0

127.360640105838258,165.520797275952862,32452.6144009143884,7.550700906704114,326.62435345560164,425.38341949538733,15.586810438033126,78.74001566430479,3.6622917828524573,0

137.974521648923869,218.69330048866644,18767.65668181348,8.110384501123875,364.09823046204866,14.525745697593209,76.48591117965157,4.011718108339787,0

147.119824384264552,156.70499334039215,18730.813653342713,3.60603690905057203,282.3440504739606,347.71502726194376,15.929535908825699,79.5007783369744,3.445756223321899,0

15150.1749233951362,27331.361961927756,6.838223470687509,299.41578134685847,379.76183482577244,19.370807181232124,76.5099955279583,4.413974182974902,0

164.9623220797336,205.34498215818513,28388.00488673697,5.072557773840631,444.6453523327066,13.228311099224527,70.30021264692436,4.777382337225378,0

176.347271760539316,186.73288066057614,41065.23476453935,9.629596276480584,364.4876872467604,516.743281893657,11.539781191539419,75.07161728663777,4.376348290691898,0

187.051785880016845,211.04940606054578,30980.600786788862,10.094796011661426,315.1412672443021,20.39702184072246,56.65160378979331,4.268428857506186,0

199.181560007151536,273.8138065980095,24041.32628006128,6.904989726470096,398.3505168222779,477.9746418621779,13.387340780225543,71.4573622129516,4.503660796179122,0

208.975464347533963,279.35716677009236,19460.398131232112,6.204320858892474,431.44398999034894,12.88875905430399,63.82123709666397,2.4360855903052734,0

217.371050302429531,214.49661045715658,25630.320036909725,4.4326692903772123,335.75443859606526,469.91455147923585,12.500163048498695,62.79727715266126,2.5602991476149146,0

227.227.43504835115596,22305.56741374141,10.333917888218679,554.8200864605433,16.33169328269446,45.382815177870924,4.13342264357917,0

236.660212026118103,168.28374685651832,30944.363591242687,5.858769130547582,310.93085831787846,523.6712975009444,17.88423519296481,7.0423180517003,3.7497012410996176,0

24215.97785868806778,17107.224225827616,5.607060453087125,326.943977743867,436.25619397264916,14.189062206123708,59.8547582615388,5.459250956028731,0

253.902475685915096,196.9032467083208,21167.500098968772,6.996311586298768,444.47888250689795,16.609033155789916,90.1816758847452,4.528522696326911,0

265.400301780729467,140.73906225113961,17266.593421923077,10.05685248033495,328.3582406980835,472.8740732754293,11.256381166909478,56.9319064457562,4.824786389767524,0

276.514415093251676,198.76735125945606,21218.702871190195,8.67093691991312,323.5963490101317,413.2904500885347,14.899999566696977,79.84784281372556,5.200885076539757,0

283.4450618643852127,207.9626018799376,33424.7686784948,8.782147480773485,384.00700580172116,441.7858756739387,13.80590221127079,30.284597198002704,4.184396969028851,0

29145.76818060217258,13224.935638976958,7.906444720606137,304.0019927974152,298.99066649993244,12.729524720542258,49.536848802021865,4.004871127571583,0

30266.4210180681174,26362.965012309312,7.700063469729127,395.38949034184554,364.48010670373776,10.34895075743782,53.00838135392041,3.9915642477993067,0

31148.15306144508662,15193.41347396722,9.04683270725723,307.01179262256534,563.8047433250861,16.56865556799744,52.67618503420983,6.0381849531835865,0

327.181448580829175,209.62560053629045,15196.229987483843,5.994678646449973,338.3364310774872,342.1112862851926,7.92259833302262,71.5379532557936,5.088859989138795,0

339.82548990813439,190.7566182870043,19677.892465552013,6.757540731413941,452.8362348772383,16.8990378000164,47.081971185777654,2.857472426051184,0

PROBLEMS2OUTPUTDEBUG CONSOLETERMINALJUPYTER

WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.

* Running on http://127.0.0.1:5000

Press CTRL+C to quit

* Restarting with stat

C:\Users\HOME\AppData\Local\Programs\Python\Python39\lib\site-packages\sklearn\base.py:329: UserWarning: Trying to unpickle estimator StandardScaler from version 0.24.0 when using version 1.1.3. This might lead to breaking code or invalid results. Use at your own risk. For more info please refer to: https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations

warnings.warn(

* Debugger is active!

* Debugger PIN: 873-600-839

127.0.0.1 - - [11/Nov/2022 13:57:12] "GET / HTTP/1.1" 200 -

C:\Users\HOME\AppData\Local\Programs\Python\Python39\lib\site-packages\sklearn\base.py:443: UserWarning: X has feature names, but StandardScaler was fitted without feature names

warnings.warn(

127.0.0.1 - - [11/Nov/2022 13:57:43] "POST /predict HTTP/1.1" 200 -

Activate Windows

Go to Settings to activate Windows.

Ln 1, Col 1Spaces: 4UTF-8CRLFPlain Text

Type here to search

02:55 PM11-11-2022

Visual Studio Code interface showing a Jupyter Notebook titled "Water_quality.ipynb" with the following code and output:

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
```

[3] ✓ 6.6s

```
df = pd.read_csv("water_potability.csv")
df.head()
```

[4] ✓ 0.3s

	ph	Hardness	Solids	Chloramines	Sulfate	Conductivity	Organic_carbon	Trihalomethanes	Turbidity	Potability
0	NaN	204.890455	20791.318981	7.300212	368.516441	564.308654	10.379783	86.990970	2.963135	0
1	3.716080	129.422921	18630.057858	6.635246	NaN	592.885359	15.180013	56.329076	4.500656	0
2	8.099124	224.236259	19909.541732	9.275884	NaN	418.606213	16.868637	66.420093	3.055934	0
3	8.316766	214.373394	22018.417441	8.059332	356.886136	363.266516	18.436524	100.341674	4.628771	0
4	9.092223	181.101509	17978.986339	6.546600	310.135738	398.410813	11.558279	31.997993	4.075075	0

```
df.shape
```

[5] ✓ 0.1s

... (3276, 10)

```
df.info()
```

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

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Press CTRL+C to quit

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C:\Users\HOME\AppData\Local\Programs\Python\Python39\lib\site-packages\sklearn\base.py:329: UserWarning: Trying to unpickle estimator StandardScaler from version 0.24.0 when using version 1.1.3. This might lead to breaking code or invalid results. Use at your own risk. For more info please refer to: https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations

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warnings.warn(

127.0.0.1 - - [11/Nov/2022 13:57:43] "POST /predict HTTP/1.1" 200 -

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Jupyter Server: Local Ln 1, Col 1 Spaces: 4 CRLF Cell 51 of 52

Type here to search

02:56 PM 11-11-2022

File Edit Selection View Go Run Terminal Help

Water_quality.ipynb - Water Quality - Visual Studio Code

app.py Water_quality.ipynb home.html 2 water_potability.csv

Water_quality.ipynb > M*Problem Statement > M*Hyperparameter Tuning with Support vector Machine > ## Pickle

+ Code + Markdown ▶ Run All ≡ Clear Outputs of All Cells ↺ Restart | Variables Outline ...

Python 3.9.1 64-bit

EXPLORER

WATER QUALITY

static

templates

home.html 2

app.py

model.pkl

my_scaler.save

Profile

requirements.txt

water_potability.csv

Water_quality.ipynb

df.info()

[6] ✓ 0.1s

Python

<class 'pandas.core.frame.DataFrame'>

RangeIndex: 3276 entries, 0 to 3275

Data columns (total 10 columns):

Column Non-Null Count Dtype

0 ph 2785 non-null float64

1 Hardness 3276 non-null float64

2 Solids 3276 non-null float64

3 Chloramines 3276 non-null float64

4 Sulfate 2495 non-null float64

5 Conductivity 3276 non-null float64

6 Organic_carbon 3276 non-null float64

7 Trihalomethanes 3114 non-null float64

8 Turbidity 3276 non-null float64

9 Potability 3276 non-null int64

dtypes: float64(9), int64(1)

memory usage: 256.1 KB

df.describe()

[7] ✓ 0.2s

Python

ph Hardness Solids Chloramines Sulfate Conductivity Organic_carbon Trihalomethanes Turbidity Potability

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

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* Running on http://127.0.0.1:5000

Press CTRL+C to quit

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warnings.warn(

127.0.0.1 - - [11/Nov/2022 13:57:43] "POST /predict HTTP/1.1" 200 -

2 0

Type here to search

Activate Windows
Go to Settings to activate Windows.

Jupyter Server: Local Ln 1, Col 1 Spaces: 4 CRLF Cell 51 of 52

02:56 PM
11-11-2022

File Edit Selection View Go Run Terminal Help

Water_quality.ipynb - Water Quality - Visual Studio Code

EXPLORER

Water_quality.ipynb x home.html 2 water_potability.csv

Water_quality.ipynb > M+Problem Statement > M+Hyperparameter Tuning with Support vector Machine > ## Pickle

+ Code + Markdown Run All Clear Outputs of All Cells Restart Variables Outline

Python 3.9.1 64-bit

WATER QUALITY

static

templates

home.html

app.py

model.pkl

my_scaler.save

Profile

requirements.txt

water_potability.csv

Water_quality.ipynb

df.describe()

[7] ✓ 0.2s

Python

	ph	Hardness	Solids	Chloramines	Sulfate	Conductivity	Organic_carbon	Trihalomethanes	Turbidity	Potability
count	2785.000000	3276.000000	3276.000000	3276.000000	2495.000000	3276.000000	3276.000000	3114.000000	3276.000000	3276.000000
mean	7.080795	196.369496	22014.092526	7.122277	333.775777	426.205111	14.284970	66.396293	3.966786	0.390110
std	1.594320	32.879761	8768.570828	1.583085	41.416840	80.824064	3.308162	16.175008	0.780382	0.487849
min	0.000000	47.432000	320.942611	0.352000	129.000000	181.483754	2.200000	0.738000	1.450000	0.000000
25%	6.093092	176.850538	15666.690297	6.127421	307.699498	365.734414	12.065801	55.844536	3.439711	0.000000
50%	7.036752	196.967627	20927.833607	7.130299	333.073546	421.884968	14.218338	66.622485	3.955028	0.000000
75%	8.062066	216.667456	27332.762127	8.114887	359.950170	481.792304	16.557652	77.337473	4.500320	1.000000
max	14.000000	323.124000	61227.196008	13.127000	481.030642	753.342620	28.300000	124.000000	6.739000	1.000000

sns.countplot(x='Potability',data=df)

[8] ✓ 0.3s

Python

<AxesSubplot: xlabel='Potability', ylabel='count'>

</>

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
* Restarting with stat
C:\Users\HOME\AppData\Local\Programs\Python\Python39\lib\site-packages\sklearn\base.py:329: UserWarning: Trying to unpickle estimator StandardScaler from version 0.24.0 when using version 1.1.3. This might lead to breaking code or invalid results. Use at your own risk. For more info please refer to: https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
warnings.warn(
* Debugger is active!
* Debugger PIN: 873-600-839
127.0.0.1 - - [11/Nov/2022 13:57:12] "GET / HTTP/1.1" 200 -
C:\Users\HOME\AppData\Local\Programs\Python\Python39\lib\site-packages\sklearn\base.py:443: UserWarning: X has feature names, but StandardScaler was fitted without feature names
warnings.warn(
127.0.0.1 - - [11/Nov/2022 13:57:43] "POST /predict HTTP/1.1" 200 -
[]

Activate Windows
Go to Settings to activate Windows.

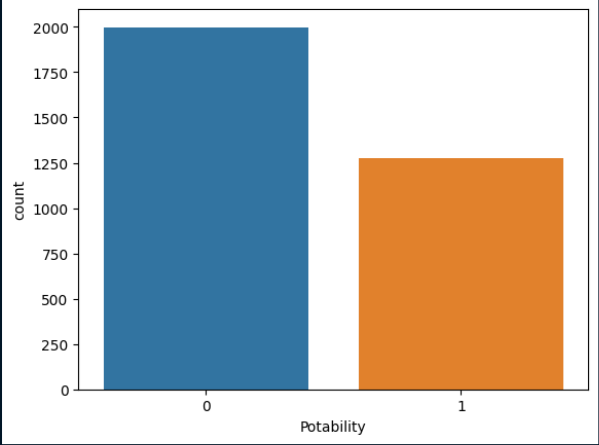
Jupyter Server: Local Ln 1, Col 1 Spaces: 4 CRLF Cell 51 of 52

Type here to search

02:56 PM
11-11-2022

Visual Studio Code interface showing a Jupyter Notebook titled "Water_quality.ipynb" with the following content:

```
<AxesSubplot: xlabel='Potability', ylabel='count'>
```



Potability	count
0	2000
1	1250

The code cell below the chart shows:

```
df["Potability"].value_counts()
```

The output of the code cell is:

```
[9] ✓ 0.4s
```

The terminal output shows the following warnings and messages:

```
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
* Restarting with stat
C:\Users\HOME\AppData\Local\Programs\Python\Python39\lib\site-packages\sklearn\base.py:329: UserWarning: Trying to unpickle estimator StandardScaler from version 0.24.0 when using version 1.1.3. This might l
ead to breaking code or invalid results. Use at your own risk. For more info please refer to:
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
warnings.warn(
* Debugger is active!
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warnings.warn(
127.0.0.1 - - [11/Nov/2022 13:57:43] "POST /predict HTTP/1.1" 200 -
```

The status bar at the bottom indicates the Jupyter Server is running on Local, Ln 1, Col 1, Spaces: 4, CRLF, Cell 51 of 52. The system clock shows 02:56 PM on 11-11-2022.