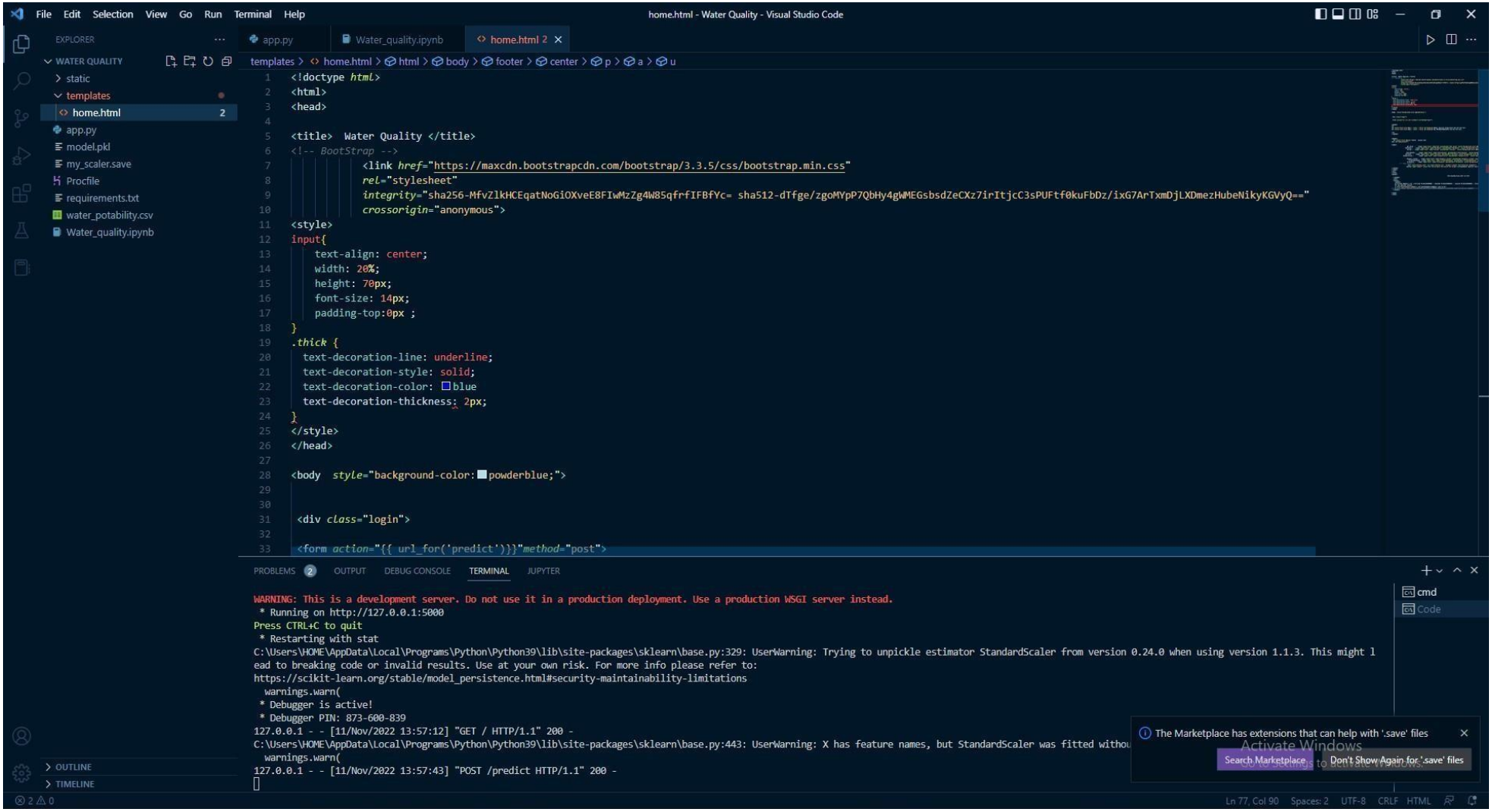
SPRINT 1

Project Deliverables (Code & Test Cases)

Date	04 November 2022
Team ID	PNT2022TMID25980
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


File Edit Selection View Go Run Terminal Help
home.html - Water Quality - Visual Studio Code
EXPLORER
WATER QUALITY
static
templates
home.html 2
app.py
model.pkl
my_scaler.save
Procfile
requirements.txt
water_potability.csv
Water_quality.ipynb
app.py
Water_quality.ipynb
home.html 2
templates > home.html > html > body > footer > center > p > a > u
<!doctype html>
<html>
<head>
<title> Water Quality </title>
<!-- BootStrap -->
<link href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/css/bootstrap.min.css"
rel="stylesheet"
integrity="sha256-MfvZlkHCEqatNoGiOXveE8FIwMzZg4W85qfrfIFBfYc= sha512-dTfge/zgoMYpP7QbHy4gWMEGsbsdZeCXz7irItjcC3sPUFtf0kuFbDz/ixG7ArTxmDjLXDmezHubeNikyKGVyQ=="
crossorigin="anonymous">
<style>
input{
text-align: center;
width: 20%;
height: 70px;
font-size: 14px;
padding-top:0px ;
}
.thick {
text-decoration-line: underline;
text-decoration-style: solid;
text-decoration-color: blue
text-decoration-thickness: 2px;
}
</style>
</head>
<body style="background-color:powderblue;">

<form action="{{ url_for('predict')}}"method="post">
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 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 witho
warnings.warn(
127.0.0.1 - - [11/Nov/2022 13:57:43] "POST /predict HTTP/1.1" 200 -
cmd
Code
The Marketplace has extensions that can help with '.save' files
Search Marketplace
Don't Show Again for '.save' files
Activate Windows
OUTLINE
TIMELINE
Ln 77, Col 90 Spaces: 2 UTF-8 CRLF HTML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templates > home.html > html > body > footer > center > p > a > u
<label>
pH value : <input type="text" name="ph" placeholder="pH value" style="background-color:#DCDCDC; height:40px" required="required" />
Hardness : <input type="text" name="Hardness" placeholder="Hardness" style="background-color:#DCDCDC; height:40px"required="required" />
Solids : <input type="text" name="Solids" placeholder="Solids" style="background-color:#DCDCDC; height:40px"required="required" />

Chloramines : <input type="text" name="Chloramines" placeholder="Chloramines" style="background-color:#DCDCDC; height:40px"required="required" />
Sulfate : <input type="text" name="Sulfate" placeholder="Sulfate" style="background-color:#DCDCDC; height:40px" required="required" />
Conductivity : <input type="text" name="Conductivity" placeholder="Conductivity" style="background-color:#DCDCDC; height:40px" required="required" />

Organic_carbon : <input type="text" name="Organic_carbon" placeholder="Organic_carbon" style="background-color:#DCDCDC; height:40px" required="required" />
Trihalomethanes :<input type="text" name="Trihalomethanes" placeholder="Trihalomethanes" style="background-color:#DCDCDC; height:40px" required="required" />
Turbidity : <input type="text" name="Turbidity" placeholder="Turbidity" style="background-color:#DCDCDC; height:40px" required="required" />

<!-- Show button -->

<button type="submit" class="btn btn-primary btn-block btn-large">Water quality Test</button>

</label>

</form>

<h1>{{prediction_text }}</h1>

<footer>

Team Members: Arvind P(142219205009) - Gowtham P(142219205025) - Leonard M(142219205053) - Arunprasath S (142219205008)
for any queries contact
gowthampponraj@gmail.com
<u>Github link</u>
</footer>
</body>
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Open file in editor (ctrl + click)
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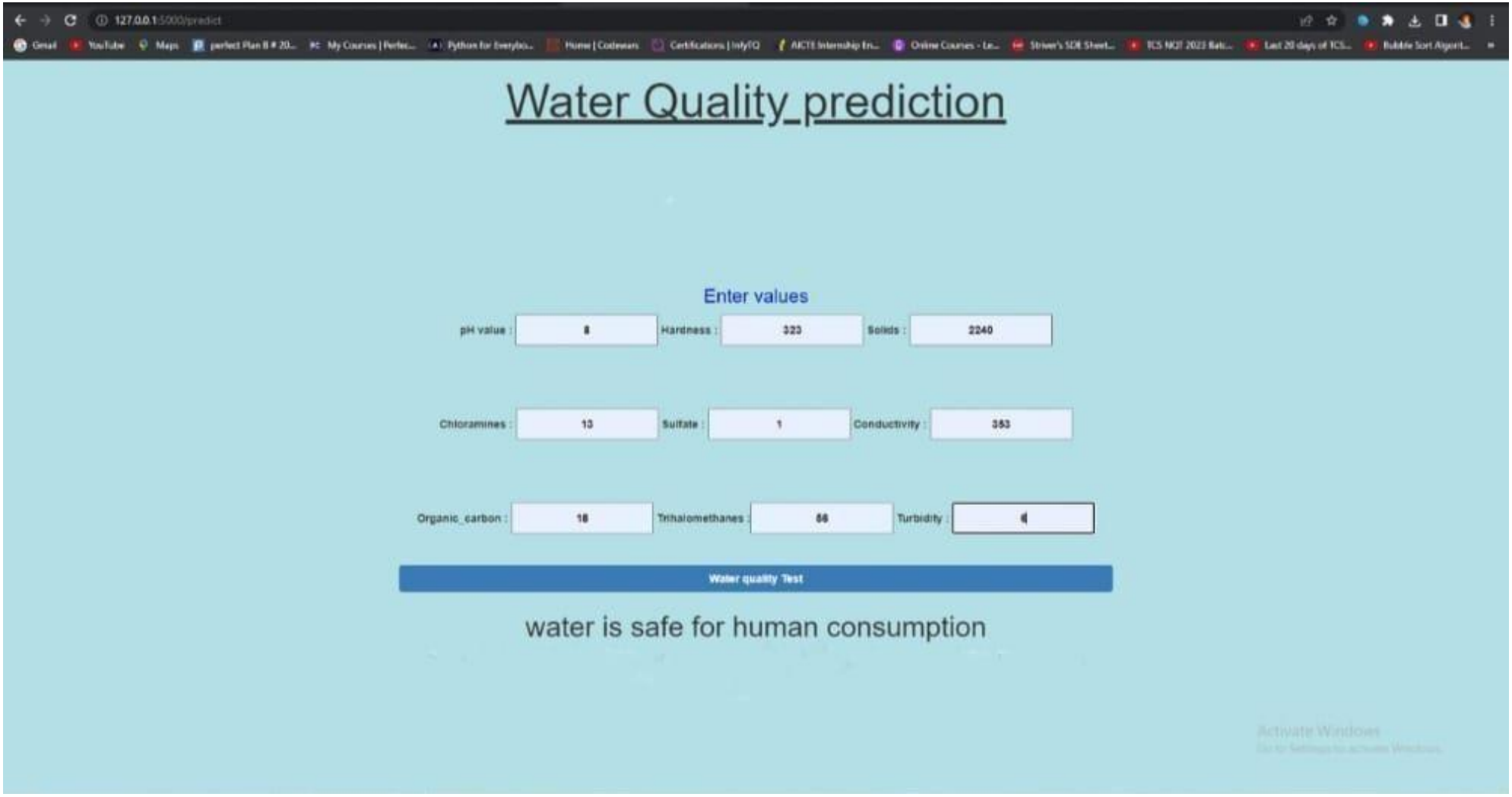
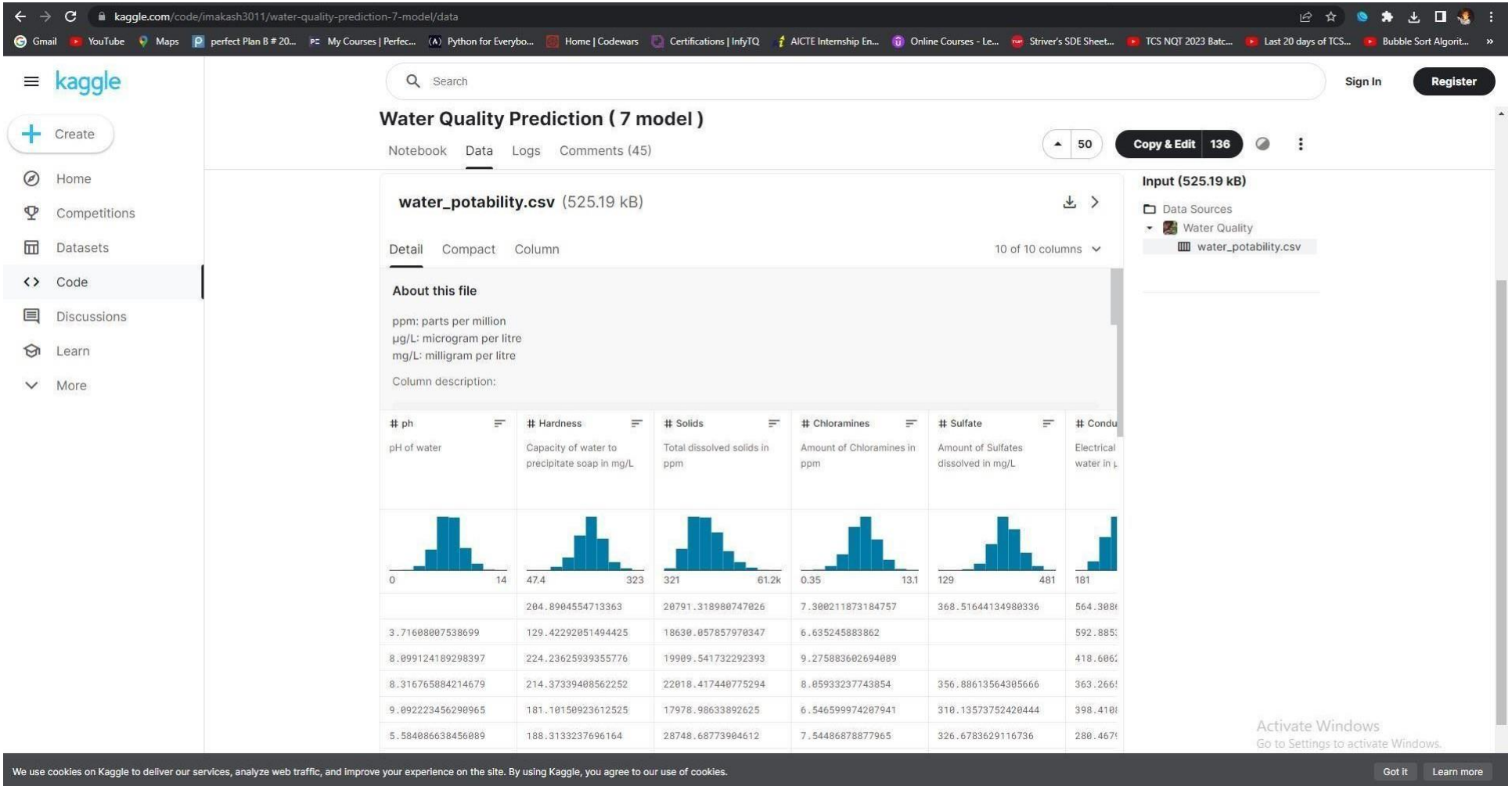
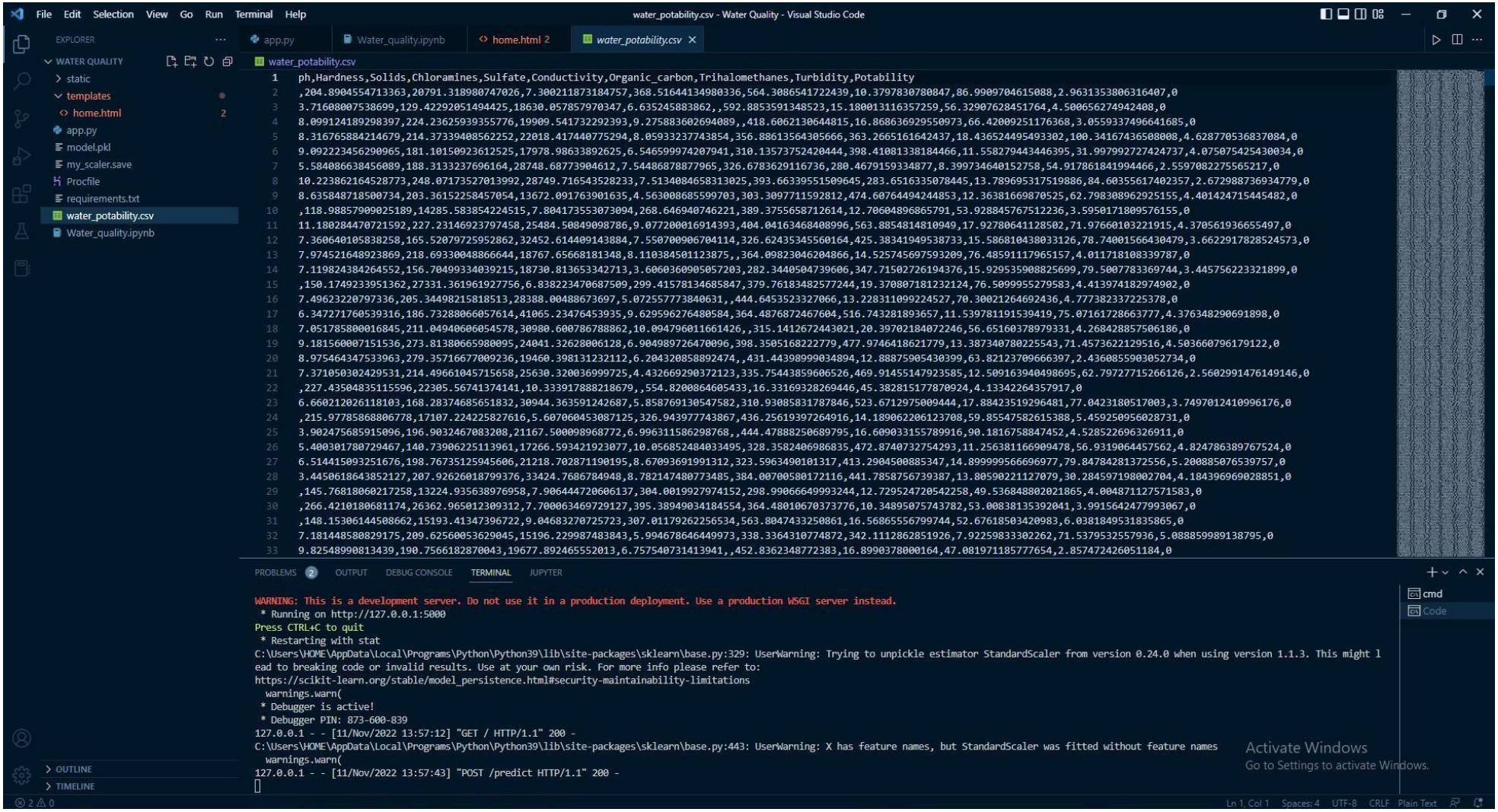

127.0.0.1:5000/predict
Water Quality prediction
Enter values
pH value :
8
Hardness :
323
Solids :
2240
Chloramines :
13
Sulfate :
1
Conductivity :
353
Organic_carbon :
18
Trihalomethanes :
66
Turbidity :
4
Water quality Test
water is safe for human consumption

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

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water_potability.csv - Water Quality - Visual Studio Code
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home.html 2
water_potability.csv
water_potability.csv
ph,Hardness,Solids,Chloramines,Sulfate,Conductivity,Organic_carbon,Trihalomethanes,Turbidity,Potability
,204.8904554713363,20791.318980747026,7.300211873184757,368.51644134980336,564.3086541722439,10.3797830780847,86.9909704615088,2.9631353806316407,0
3.71608007538699,129.42292051494425,18630.057857970347,6.635245883862,,592.8853591348523,15.180013116357259,56.32907628451764,4.500656274942408,0
8.099124189298397,224.23625939355776,19909.541732292393,9.275883602694089,,418.6062130644815,16.868636929550973,66.42009251176368,3.0559337496641685,0
8.316765884214679,214.37339408562252,22018.417440775294,8.05933237743854,356.88613564305666,363.2665161642437,18.436524495493302,100.34167436508008,4.628770536837084,0
9.092223456290965,181.10150923612525,17978.98633892625,6.546599974207941,310.13573752420444,398.41081338184466,11.558279443446395,31.997992727424737,4.075075425430034,0
5.584086638456089,188.3133237696164,28748.68773904612,7.54486878877965,326.6783629116736,280.4679159334877,8.399734640152758,54.917861841994466,2.5597082275565217,0
10.223862164528773,248.07173527013992,28749.716543528233,7.5134084658313025,393.66339551509645,283.6516335078445,13.789695317519886,84.60355617402357,2.672988736934779,0
8.635848718500734,203.36152258457054,13672.091763901635,4.563008685599703,303.3097711592812,474.60764494244853,12.36381669870525,62.798308962925155,4.401424715445482,0
,118.98857909025189,14285.583854224515,7.804173553073094,268.6469407462221,389.3755658712614,12.70604896865791,53.928845767512236,3.5950171809576155,0
11.180284470721592,227.23146923797458,25484.50849098786,9.077200016914393,404.04163468408996,563.8854814810949,17.92780641128502,71.97660103221915,4.370561936655497,0
7.360640105838258,165.52079725952862,32452.614409143884,7.550700906704114,326.624353455601 64,425.38341949538733,15.586810438033126,78.74001566430479,3.6622917828524573,0
7.974521648923869,218.69330048866644,18767.65668181348,8.110384501123875,,364.09823046204866,14.525745697593209,76.48591117965157,4.011718108339787,0
7.119824384264552,156.70499334039215,18730.813653342713,3.606036090505 7203,282.3440504739606,347.71502726194376,15.929535908825699,79.5007783369744,3.445756223321899,0
,150.1749233951362,27331.361961927756,6.838223470687509,299.41578134685847,379.76183482577244,19.370807181232124,76.5099955279583,4.413974182974902,0
7.49623220797336,205.34498215818513,28388.00488673697,5.072557773840631,,444.6453523327066,13.228311099224527,70.30021264692436,4.777382337225378,0
6.347271760539316,186.73288066057614,41065.23476453935,9.629596276480584,364.4876872467604,516.743281893657,11.539781191539419,75.07161728663777,4.376348290691898,0
7.051785800016845,211.04940606054578,30980.600786788862,10.094796011661426,,315.1412672443021,20.397021840722 46,56.65160378979331,4.268428857506186,0
9.181560007151536,273.81380665980095,24041.32628006128,6.904989726470096,398.3505168222779,477.9746418621779,13.387340780225543,71.4573622129516,4.503660796179122,0
8.975464347533963,279.35716677009236,19460.398131232112,6.204320858892474,,431.44398999034894,12.888759054303 99,63.82123709666397,2.4360855903052734,0
7.371050302429531,214.49661045715658,25630.320036999725,4.432669290372123,335.75443859606526,469.91455147923585,12.509163940498695,62.79727715266126,2.5602991476149146,0
,227.43504835115596,22305.56741374141,10.333917888218679,,554.8200864605433,16.331693282694 46,45.382815177870924,4.133422643579 17,0
6.660212026118103,168.28374685651832,30944.363591242687,5.858769130547582,310.93085831787846,523.6712975009444,17.884235192964 81,77.0423180517003,3.7497012410996176,0
,215.97785868806778,17107.224225827616,5.607060453087125,326.943977743867,436.25619397264916,14.189062206123708,59.85547582615388,5.459250956028731,0
3.902475685915096,196.9032467083208,21167.500098968772,6.996311586298768,,444.4788825068979 5,16.609033155789916,90.1816758847452,4.528522696326911,0
5.400301780729467,140.73906225113961,17266.593421923077,10.056852484033495,328.3582406986835,472.8740732754293,11.256381166909478,56.9319064457562,4.824786389767524,0
6.514415093251676,198.76735125945606,21218.702871190195,8.670936919913 12,323.5963490101317,413.2904500885347,14.899999566696977,79.84784281372556,5.200885076539757,0
3.4450618643852127,207.92626018799376,33424.7686784948,8.782147480773485,384.00700580172116,441.7858756739387,13.805902211270 79,30.284597198002704,4.184396969028851,0
,145.76818060217258,13224.935638976958,7.906444720606137,304.0019927974152,298.99066649993244,12.729524720542258,49.536848802021865,4.004871125715 83,0
,266.4210180681174,26362.965012309312,7.700063469729127,395.38949034184554,364.48010670373776,10.348950757437 82,53.00838135392041,3.9915642477993067,0
,148.15306144508662,15193.41347396722,9.046832707257 23,307.01179262256534,563.8047433250861,16.568655567997 44,52.67618503420983,6.0381849531835865,0
7.181448580829175,209.62560053629045,15196.229987483843,5.994678646449973,338.3364310774872,342.1112862851926,7.922598333022 62,71.5379532557936,5.088859989138795,0
9.82548990813439,190.7566182870043,19677.892465552013,6.757540731413941,,452.8362348772383,16.899037800016 4,47.081971185777654,2.857472426051184,0
PROBLEMS 2
OUTPUT
DEBUG CONSOLE
TERMINAL
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WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
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UTF-8
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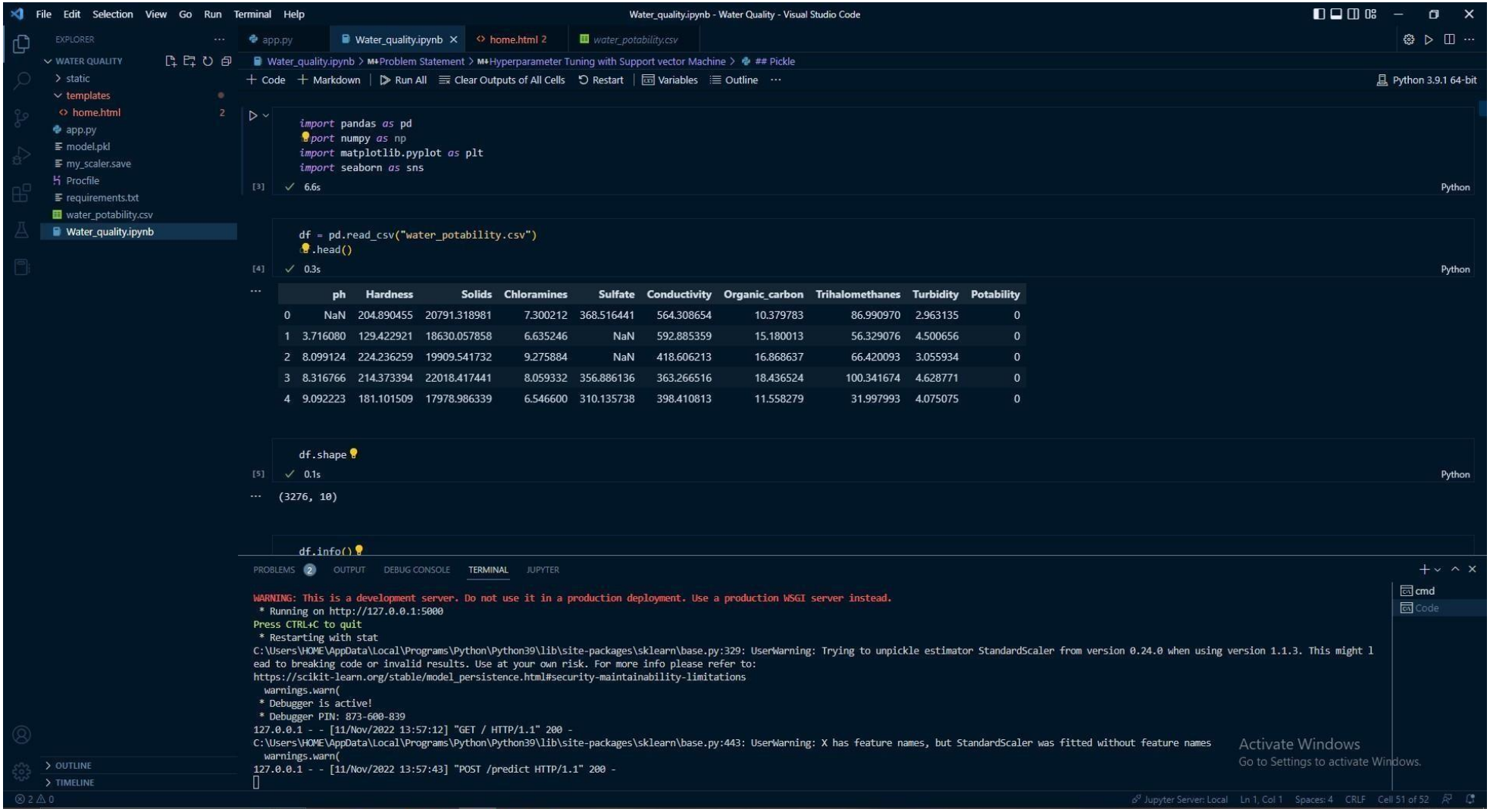
Plain Text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water_potability.csv
Water_quality.ipynb > Problem Statement > Hyperparameter Tuning with Support vector Machine > ## Pickle
Code Markdown Run All Clear Outputs of All Cells Restart Variables Outline
Python 3.9.1 64-bit
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
[3] 6.6s
Python
df = pd.read_csv("water_potability.csv")
df.head()
[4] 0.3s
Python
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
Python
(3276, 10)
df.info()
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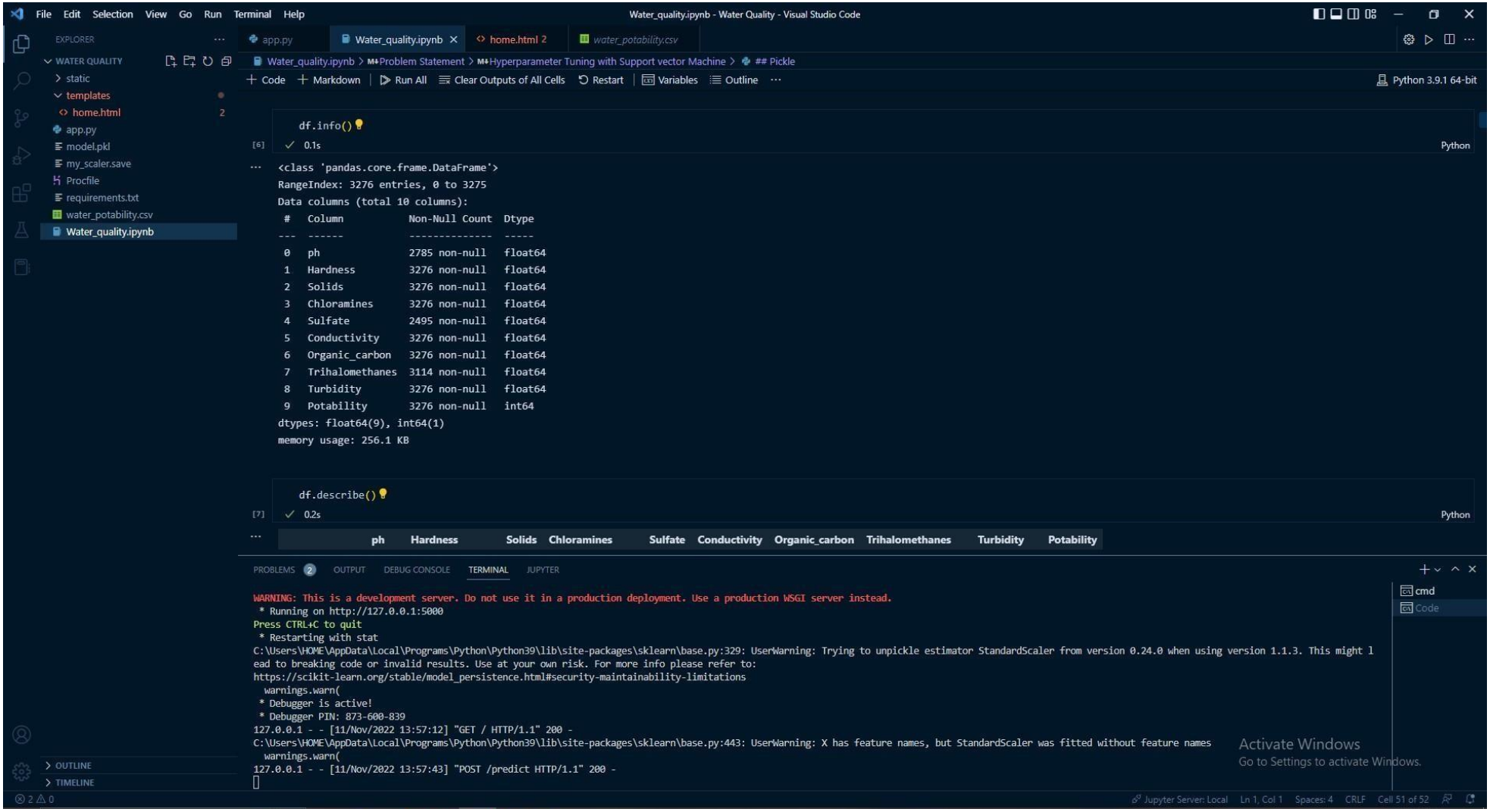
Jupyter Server: Local Ln 1, Col 1 Spaces: 4 CRLF Cell 51 of 52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home.html 2
water_potability.csv
Water_quality.ipynb > Problem Statement > Hyperparameter Tuning with Support vector Machine > ## Pickle
Code
Markdown
Run All
Clear Outputs of All Cells
Restart
Variables
Outline
Python 3.9.1 64-bit
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
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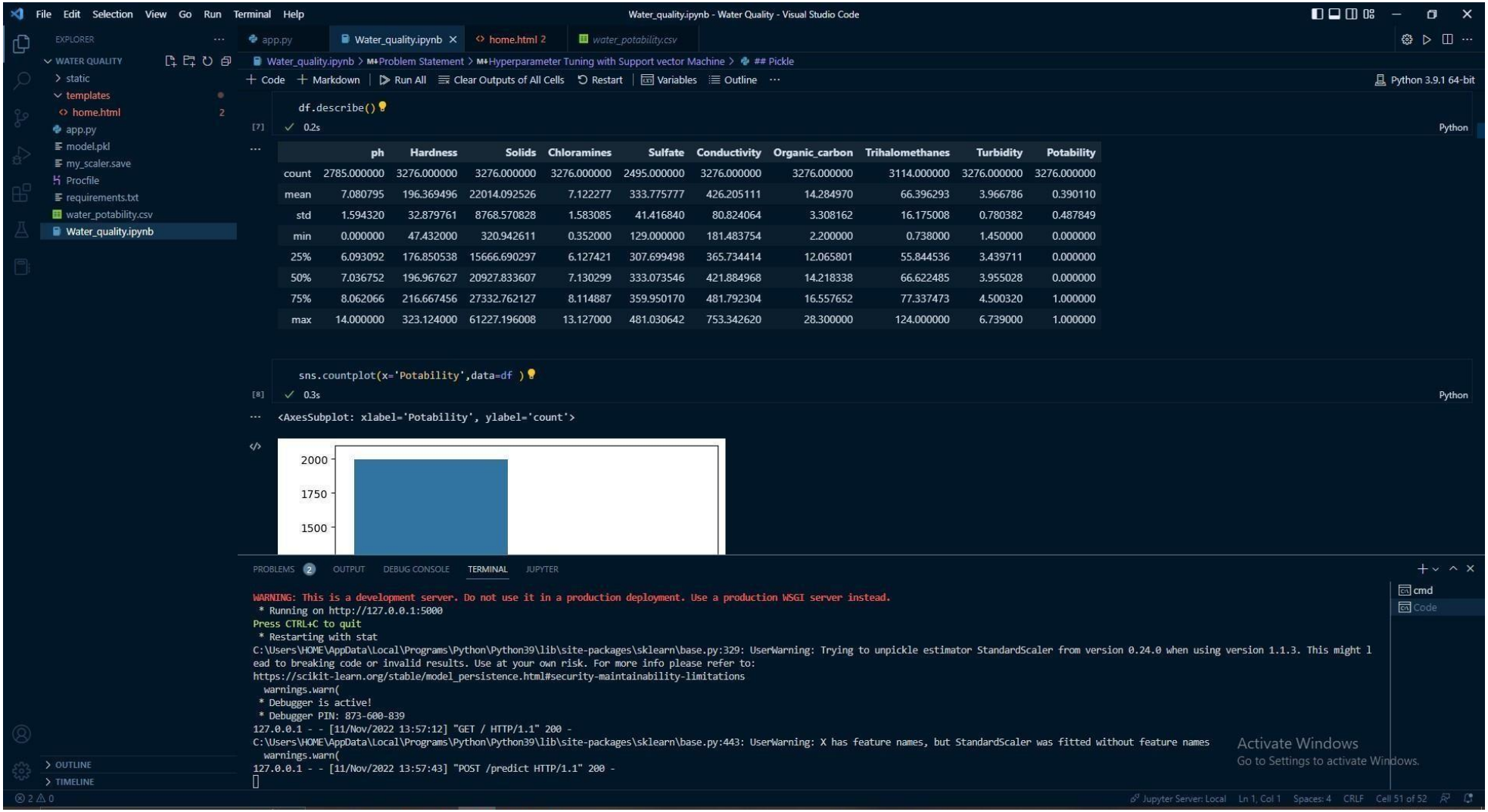
TIMELINE
Jupyter Server: Local
Ln 1, Col 1
Spaces: 4
CRLF
Cell 51 of 52


File Edit Selection View Go Run Terminal Help
Water_quality.ipynb - Water Quality - Visual Studio Code
EXPLORER
WATER QUALITY
static
templates
home.html
app.py
model.pkl
my_scaler.save
Procfile
requirements.txt
water_potability.csv
Water_quality.ipynb
app.py
Water_quality.ipynb
home.html 2
water_potability.csv
Water_quality.ipynb > Problem Statement > 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
df.describe()
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)
0.3s
Python
<AxesSubplot: xlabel='Potability', ylabel='count'>
2000
1750
1500
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 -
cmd
Code
Activate Windows
Go to Settings to activate Windows.
OUTLINE
TIMELINE
Jupyter Server: Local
Ln 1, Col 1
Spaces: 4
CRLF
Cell 51 of 52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<AxesSubplot: xlabel='Potability', ylabel='count'>
count
Potability
df["Potability"].value_counts()
0.4s
Python
PROBLEMS 2
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