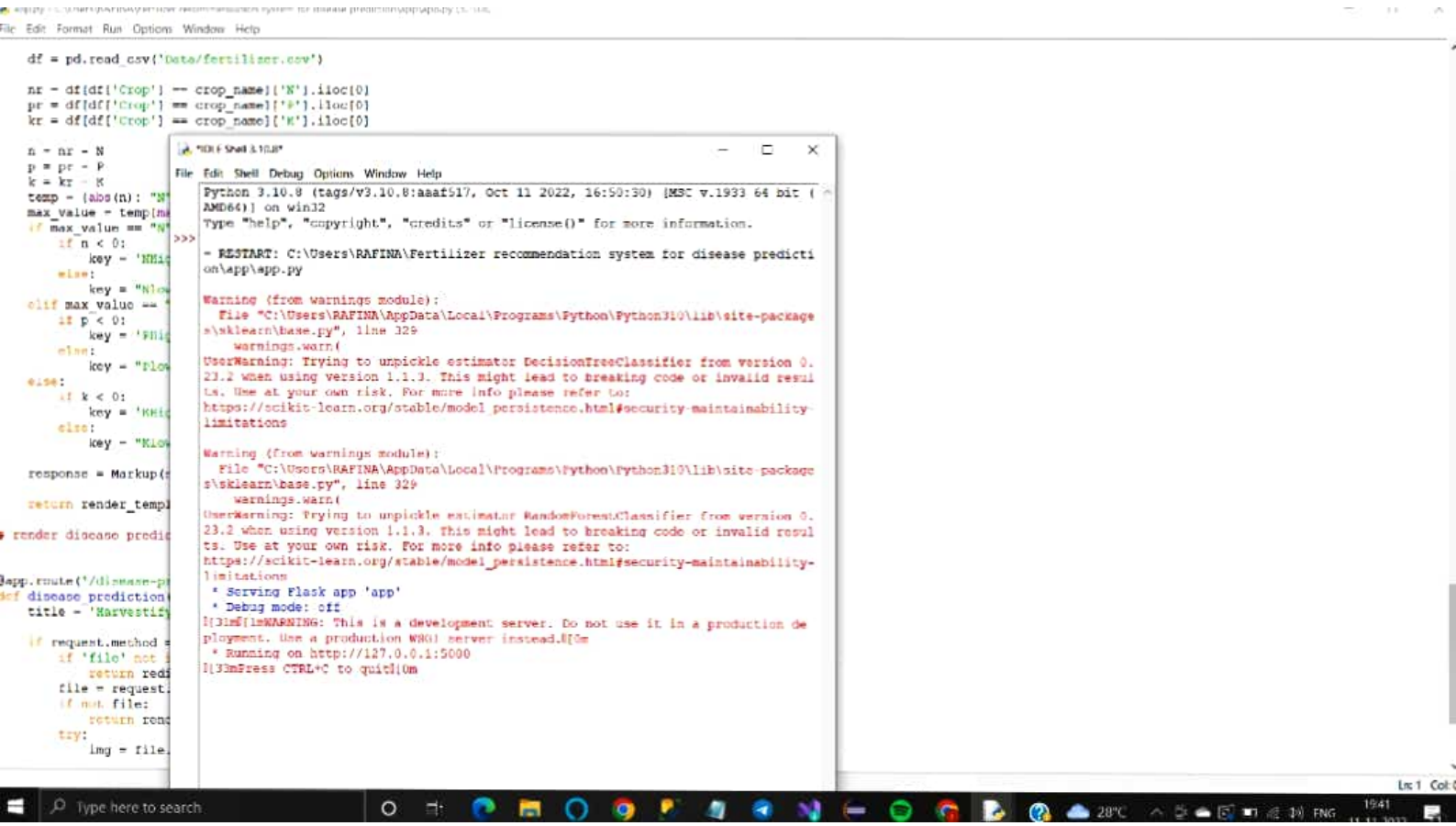
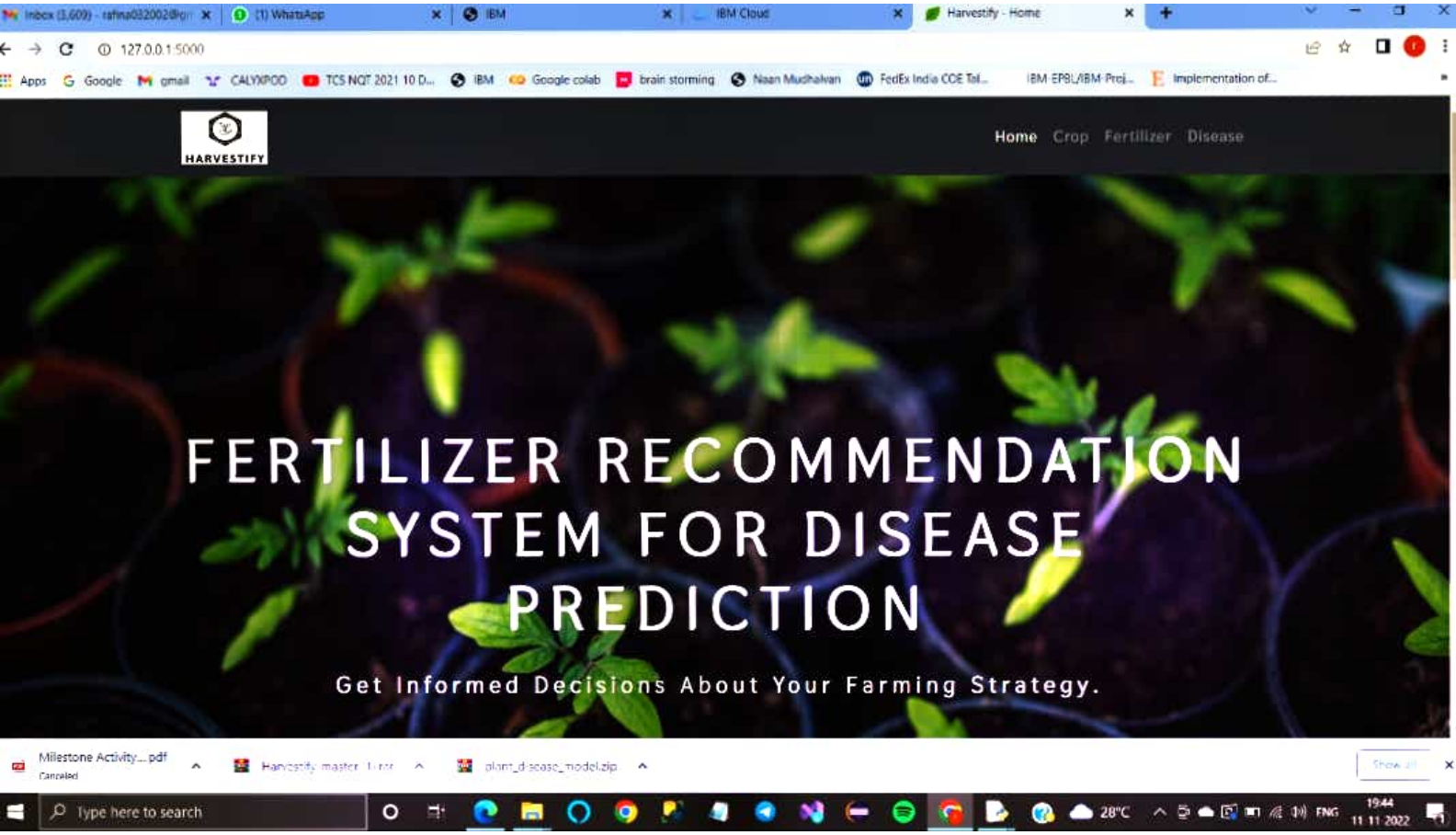

File Edit Format Run Options Window Help
df = pd.read_csv('Data/fertilizer.csv')
nr = df[df['Crop'] == crop_name]['N'].iloc[0]
pr = df[df['Crop'] == crop_name]['P'].iloc[0]
kr = df[df['Crop'] == crop_name]['K'].iloc[0]
n = nr - N
p = pr - P
k = kr - K
temp = {abs(n): "N"
max_value = temp[ma
if max_value == "N"
if n < 0:
key = 'NHig
else:
key = "Nlow
elif max_value == "
if p < 0:
key = 'PHig
else:
key = "Plow
else:
if k < 0:
key = 'KHig
else:
key = "Klow
response = Markup(
return render_templ
render disease predic
@app.route('/disease-p
def disease_prediction(
title = 'Harvestify
if request.method =
if 'file' not
return redi
file = request.
if not file:
return rend
try:
img = file.
IDLE Shell 3.10.8
File Edit Shell Debug Options Window Help
Python 3.10.8 (tags/v3.10.8:aaaf517, Oct 11 2022, 16:50:30) [MSC v.1933 64 bit (
AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\RAFINA\Fertilizer recommendation system for disease predicti
on\app\app.py
Warning (from warnings module):
File "C:\Users\RAFINA\AppData\Local\Programs\Python\Python310\lib\site-package
s\sklearn\base.py", line 329
warnings.warn(
UserWarning: Trying to unpickle estimator DecisionTreeClassifier from version 0.
23.2 when using version 1.1.3. This might lead to breaking code or invalid resul
ts. Use at your own risk. For more info please refer to:
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-
limitations
Warning (from warnings module):
File "C:\Users\RAFINA\AppData\Local\Programs\Python\Python310\lib\site-package
s\sklearn\base.py", line 329
warnings.warn(
UserWarning: Trying to unpickle estimator RandomForestClassifier from version 0.
23.2 when using version 1.1.3. This might lead to breaking code or invalid resul
ts. Use at your own risk. For more info please refer to:
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-
limitations
* Serving Flask app 'app'
* Debug mode: off
[33m[1mWARNING: This is a development server. Do not use it in a production de
ployment. Use a production WSGI server instead.[0m
* Running on http://127.0.0.1:5000
[33mPress CTRL+C to quit[0m
Ln: 1 Col: 0
Type here to search
28°C
ENG
19:41


HARVESTIFY
Home Crop Fertilizer Disease
FERTILIZER RECOMMENDATION SYSTEM FOR DISEASE PREDICTION
Get Informed Decisions About Your Farming Strategy.

About Us

IMPROVING AGRICULTURE, IMPROVING LIVES, CULTIVATING CROPS TO MAKE FARMERS INCREASE PROFIT.

We use state-of-the-art machine learning and deep learning technologies to help you guide through the entire farming process. Make informed decisions to understand the demographics of your area, understand the factors that affect your crop and keep them healthy for a super awesome successful yield.

Our Services

CROP

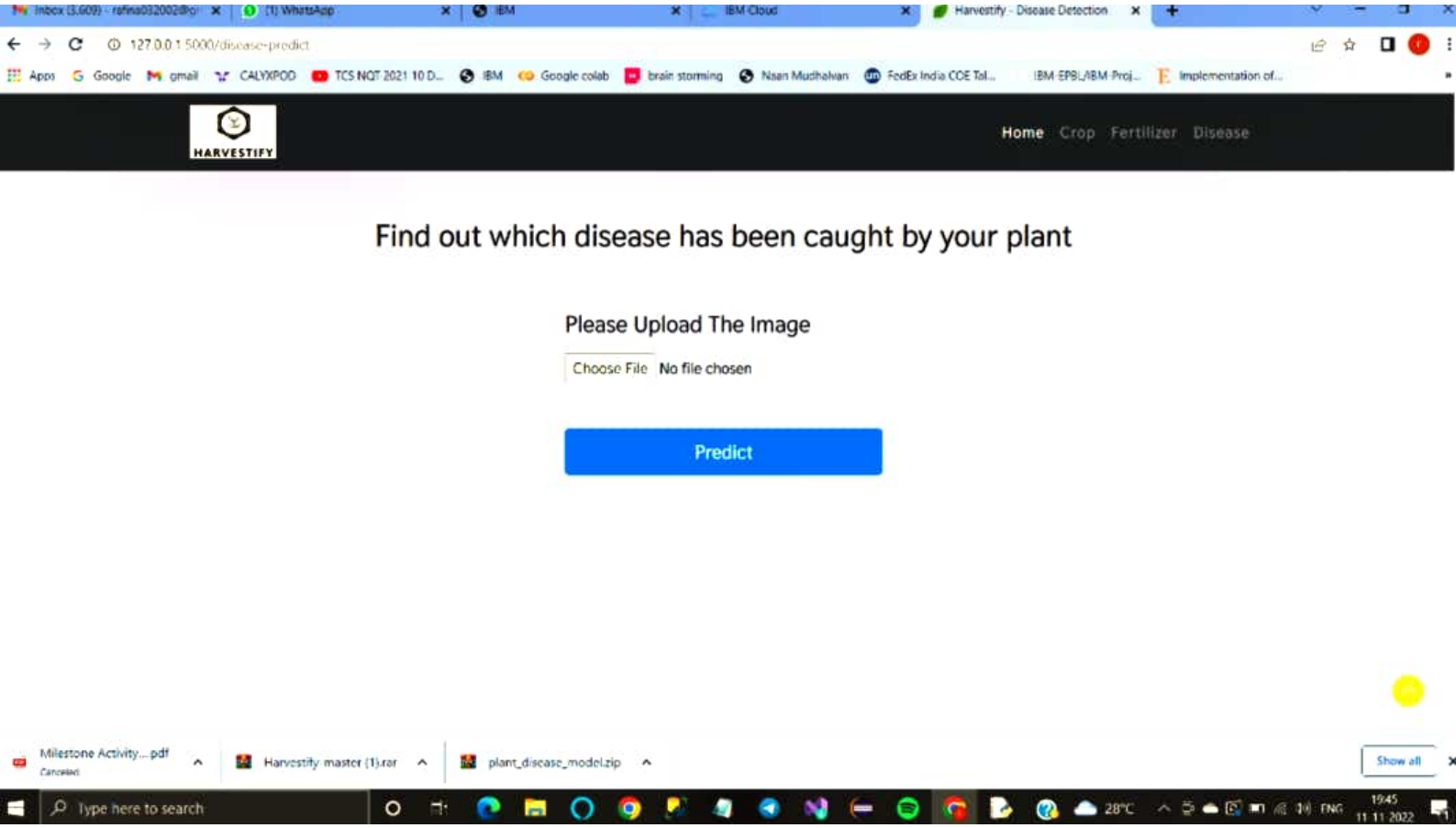
Recommendation about the type of crops to be cultivated which is best suited for the respective conditions

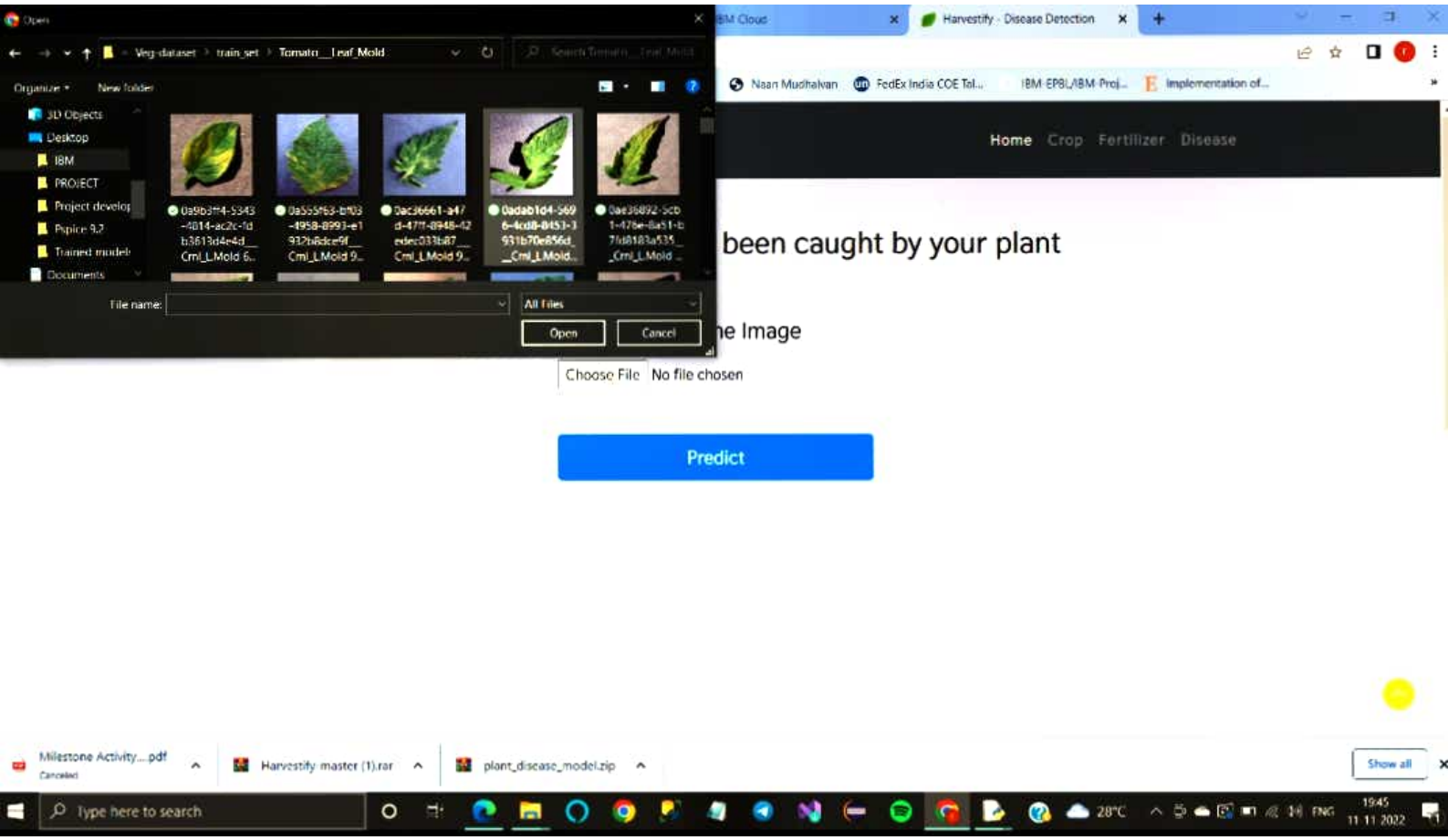
FERTILIZER

Recommendation about the type of fertilizer best suited for the particular soil and the recommended crop

CROP DISEASE

Predicting the name and causes of crop disease and suggestions to cure it


Harvestify - Disease Detection
127.0.0.1:5000/disease-predict
HARVESTIFY
Home Crop Fertilizer Disease
Find out which disease has been caught by your plant
Please Upload The Image
Choose File No file chosen
Predict



HARVESTIFY

Home Crop Fertilizer Disease

Find out which disease has been caught by your plant

Please Upload The Image

Choose File 0adab1d4-569...L Mold 8689.JPG

Predict

Crop: Tomato

Disease: Leaf Mold

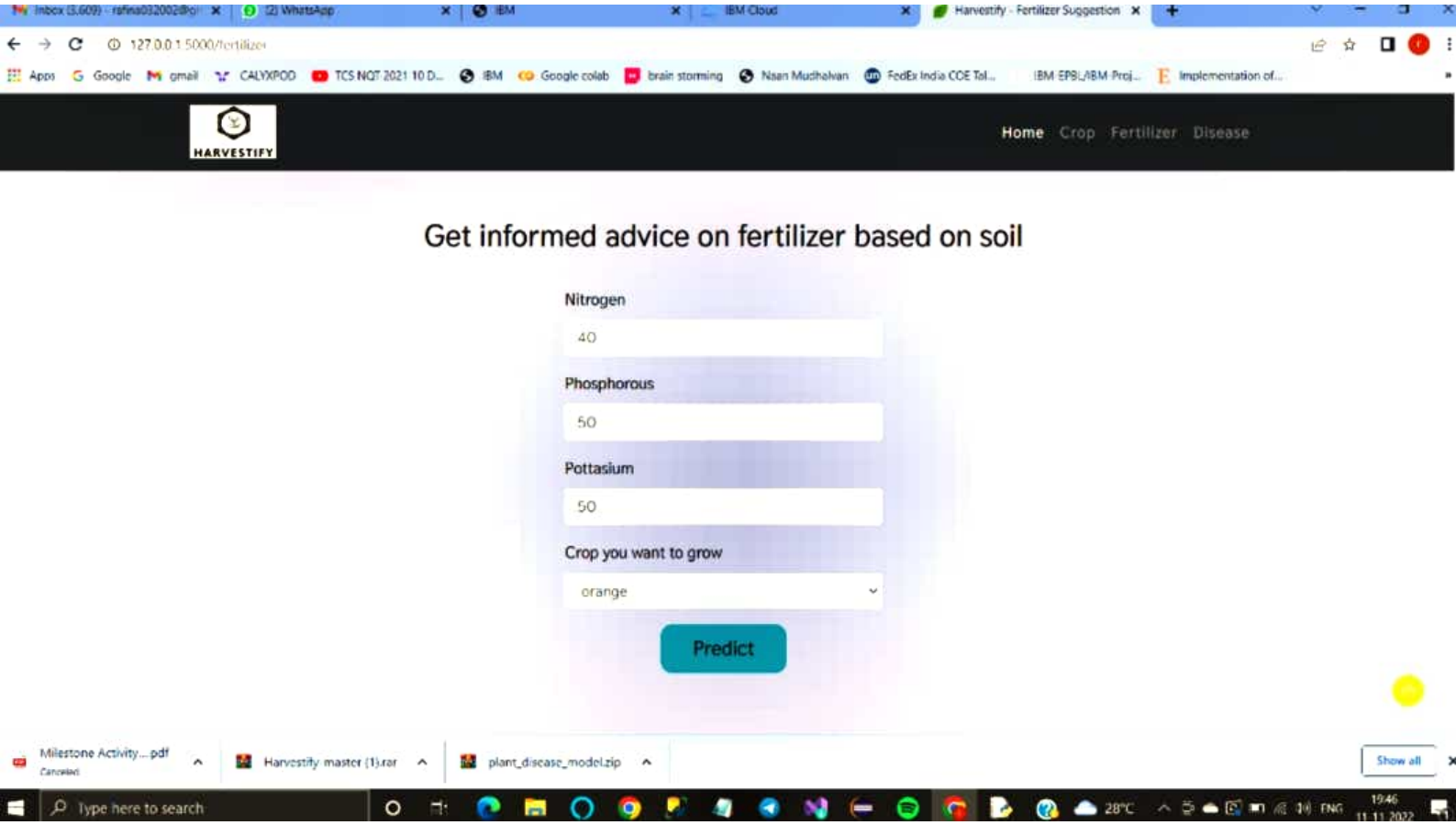
Cause of disease:

1. Leaf mold is caused by the fungus Passalora fulva (previously called Fulvia fulva or Cladosporium fulvum). It is not known to be pathogenic on any plant other than tomato.
2. Leaf spots grow together and turn brown. Leaves wither and die but often remain attached to the plant.
3. Fruit infections start as a smooth black irregular area on the stem end of the fruit. As the disease progresses, the infected area becomes sunken, dry and leathery.

How to prevent/cure the disease

How to prevent/cure the disease

1. Use drip irrigation and avoid watering foliage.
2. Space plants to provide good air movement between rows and individual plants.
3. Stake, string or prune to increase airflow in and around the plant.
4. Sterilize stakes, ties, trellises etc. with 10 percent household bleach or commercial sanitizer.
5. Circulate air in greenhouses or tunnels with vents and fans and by rolling up high tunnel sides to reduce humidity around plants.
6. Keep night temperatures in greenhouses higher than outside temperatures to avoid dew formation on the foliage.
7. Remove crop residue at the end of the season. Burn it or bury it away from tomato production areas.


HARVESTIFY
Home Crop Fertilizer Disease
Get informed advice on fertilizer based on soil
Nitrogen
40
Phosphorous
50
Pottasium
50
Crop you want to grow
orange
Predict

The K value of your soil is high.

Please consider the following suggestions:

1. *Loosen the soil* deeply with a shovel, and water thoroughly to dissolve water-soluble potassium. Allow the soil to fully dry, and repeat digging and watering the soil two or three more times.
2. *Sift through the soil*, and remove as many rocks as possible, using a soil sifter. Minerals occurring in rocks such as mica and feldspar slowly release potassium into the soil slowly through weathering.
3. Stop applying potassium-rich commercial fertilizer. Apply only commercial fertilizer that has a '0' in the final number field. Commercial fertilizers use a three number system for measuring levels of nitrogen, phosphorous and potassium. The last number stands for potassium. Another option is to stop using commercial fertilizers all together and to begin using only organic matter to enrich the soil.
4. Mix crushed eggshells, crushed seashells, wood ash or soft rock phosphate to the soil to add calcium. Mix in up to 10 percent of organic compost to help amend and balance the soil.
5. Use NPK fertilizers with low K levels and organic fertilizers since they have low NPK values.
6. Grow a cover crop of legumes that will fix nitrogen in the soil. This practice will meet the soil's

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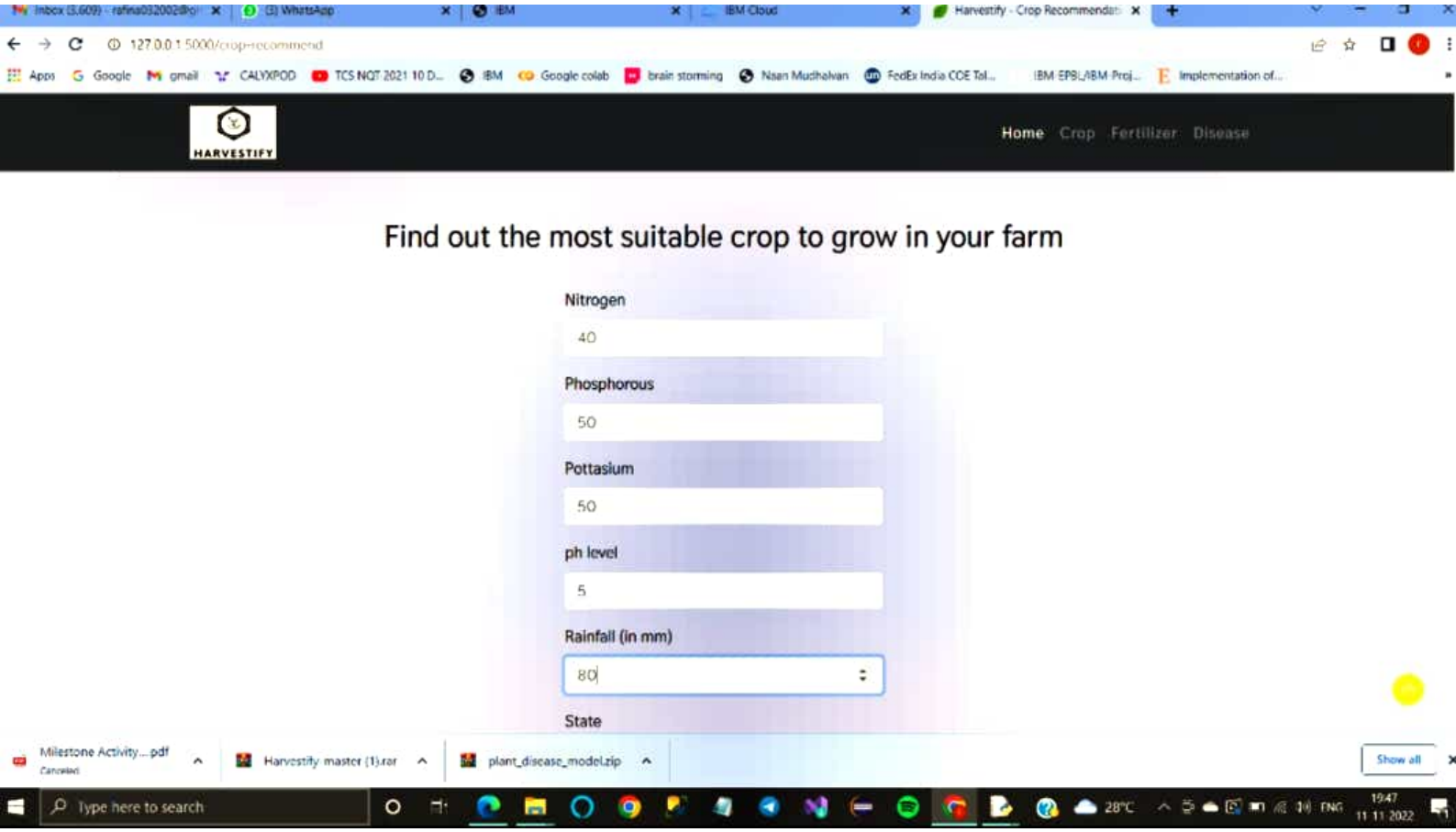
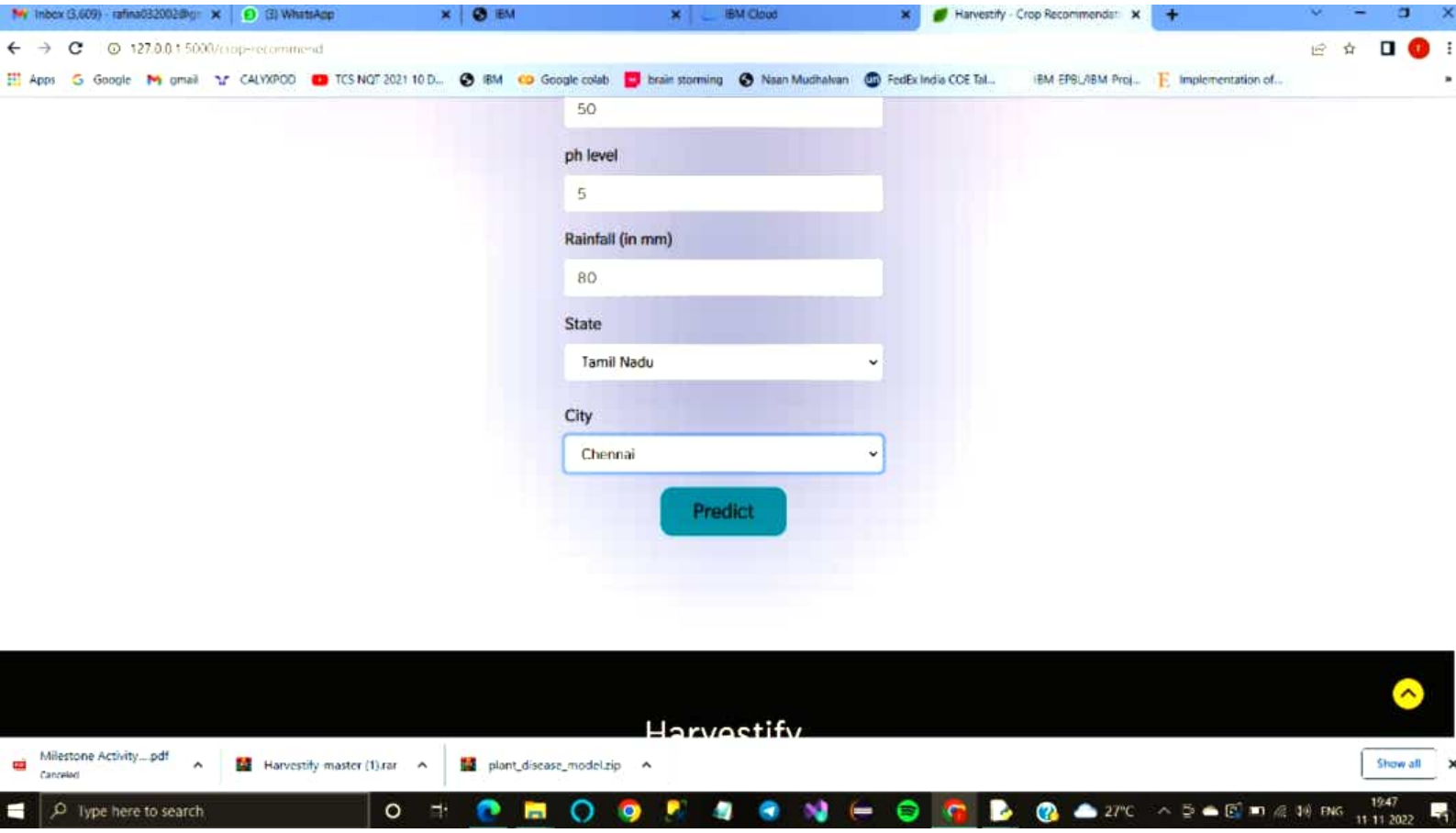
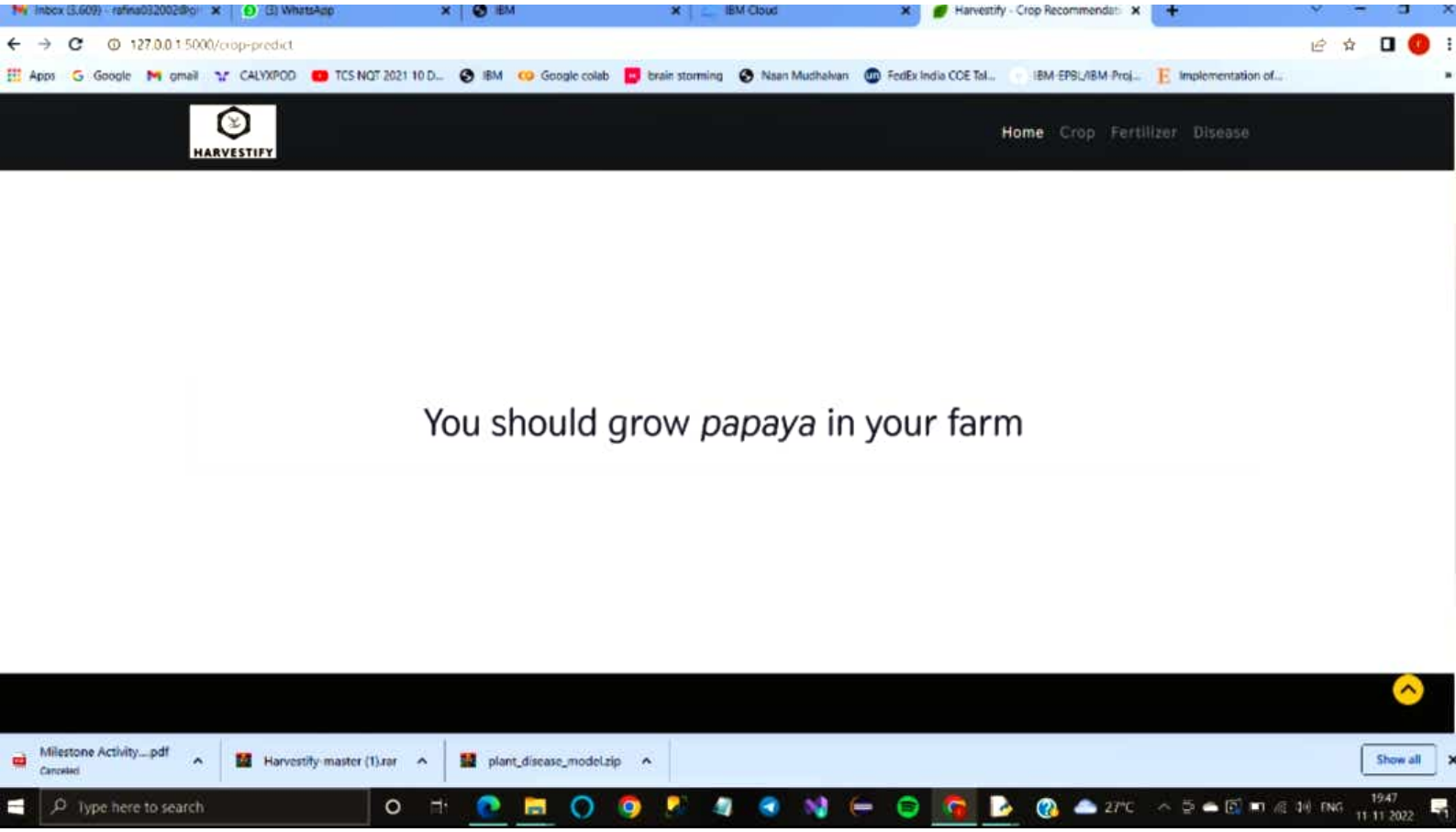
6. Grow a cover crop of legumes that will fix nitrogen in the soil. This practice will meet the soil's needs for nitrogen without increasing phosphorus or potassium.


HARVESTIFY
Home Crop Fertilizer Disease
Find out the most suitable crop to grow in your farm
Nitrogen
40
Phosphorous
50
Pottasium
50
ph level
5
Rainfall (in mm)
80
State


50
ph level
5
Rainfall (in mm)
80
State
Tamil Nadu
City
Chennai
Predict
Harvestify


127.0.0.1:5000/crop-predict
HARVESTIFY
Home Crop Fertilizer Disease
You should grow *papaya* in your farm