

# How to Use and train SVM Dataset

Step 1 : install python and packages

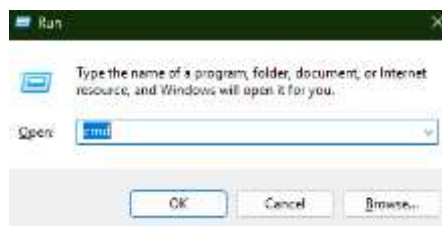
Go to the official Python website:

👉 <https://www.python.org/downloads>

Click and install "Download Python" and install

Check if installed open CMD

**win + r** type **cmd**



Type this **py --version** to check version

```
C:\WINDOWS\system32\cmd. X + v
Microsoft Windows [Version 10.0.26100.4061]
(c) Microsoft Corporation. All rights reserved.

C:\Users\ASUS> py --version
Python 3.13.0

C:\Users\ASUS>|
```

Install the package

**pip install pandas scikit-learn**

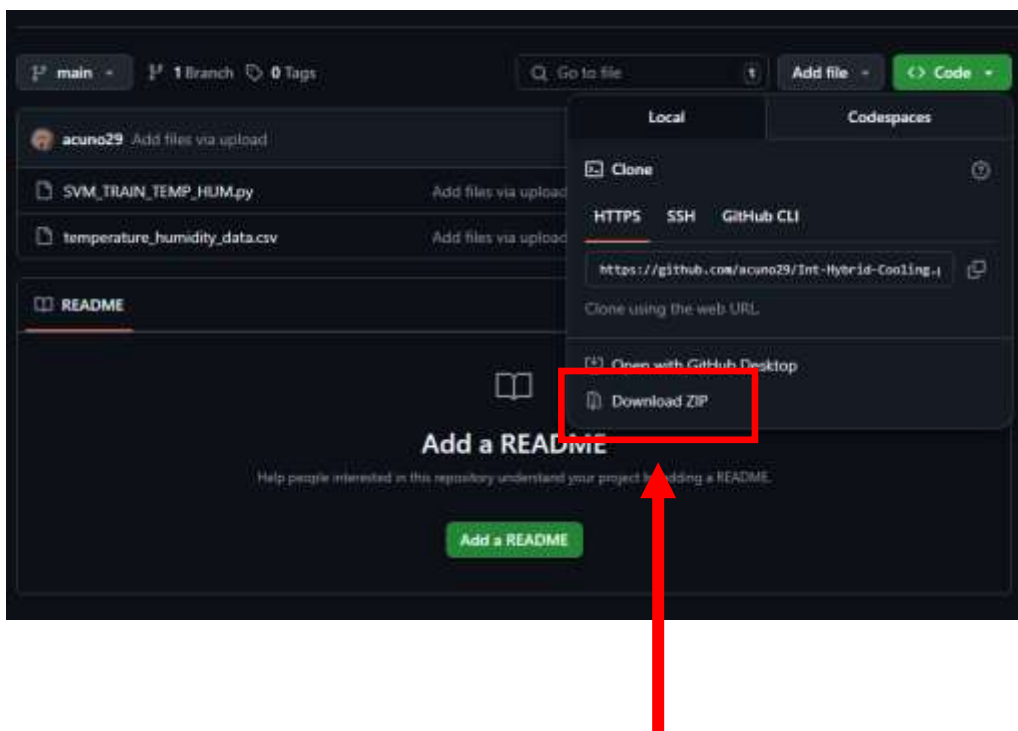
```
C:\WINDOWS\system32\cmd. X + v
Microsoft Windows [Version 10.0.26100.4061]
(c) Microsoft Corporation. All rights reserved.

C:\Users\ASUS> py --version
Python 3.13.0

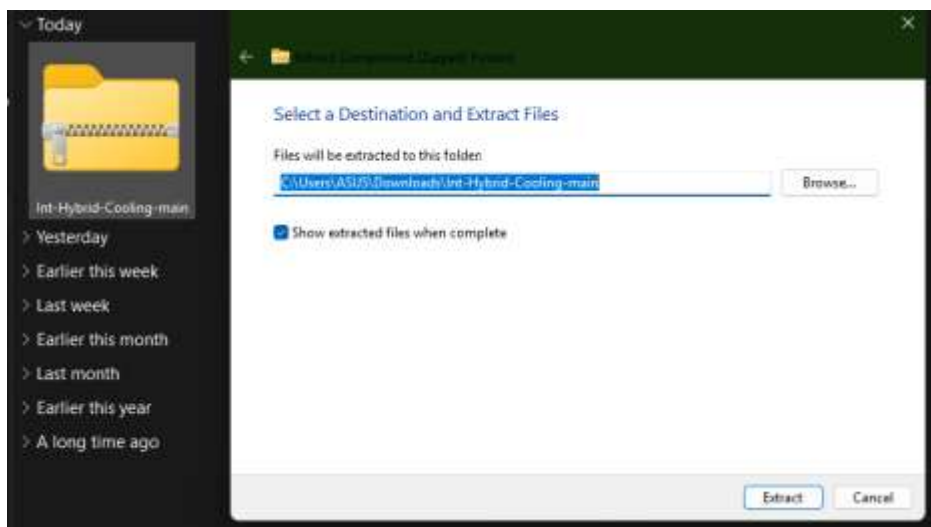
C:\Users\ASUS>pip install pandas scikit-learn|
```

**The python is all setup.**

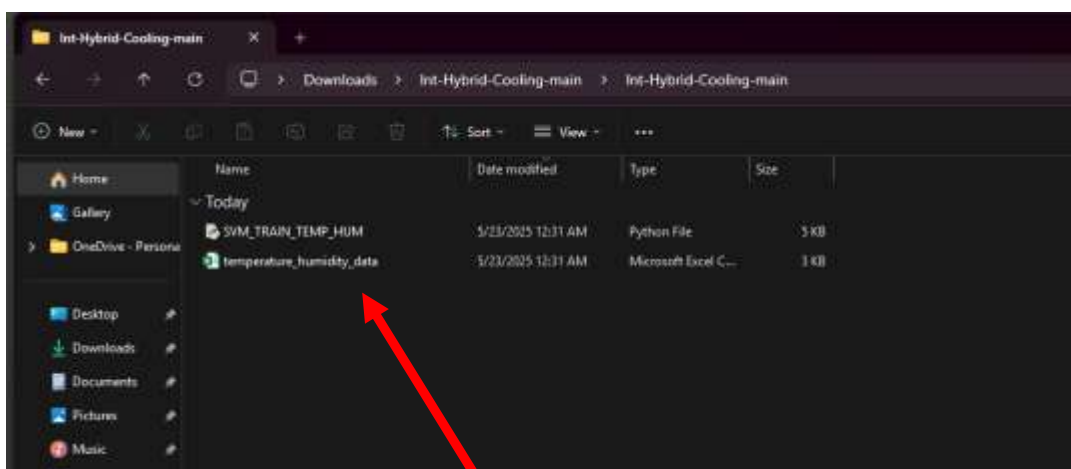
## Download the files on Github



## Download ZIP

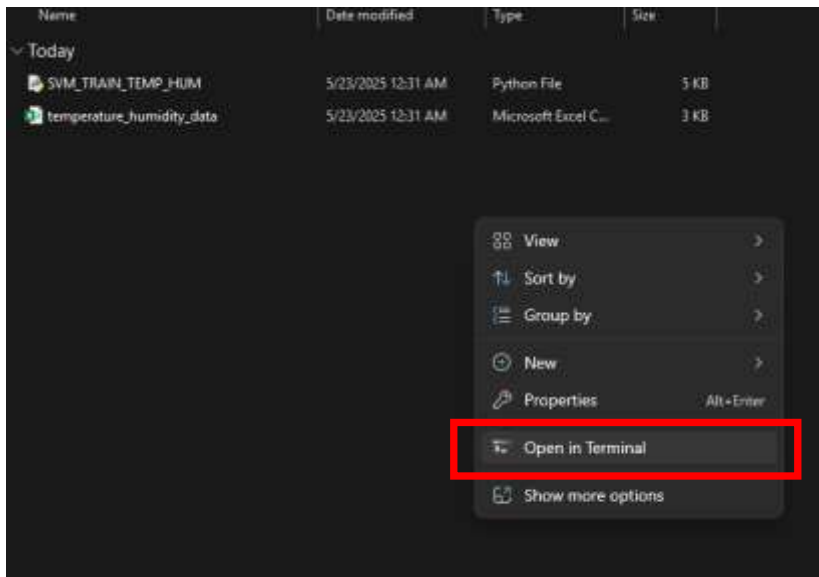


## Unzip to your wanted file location

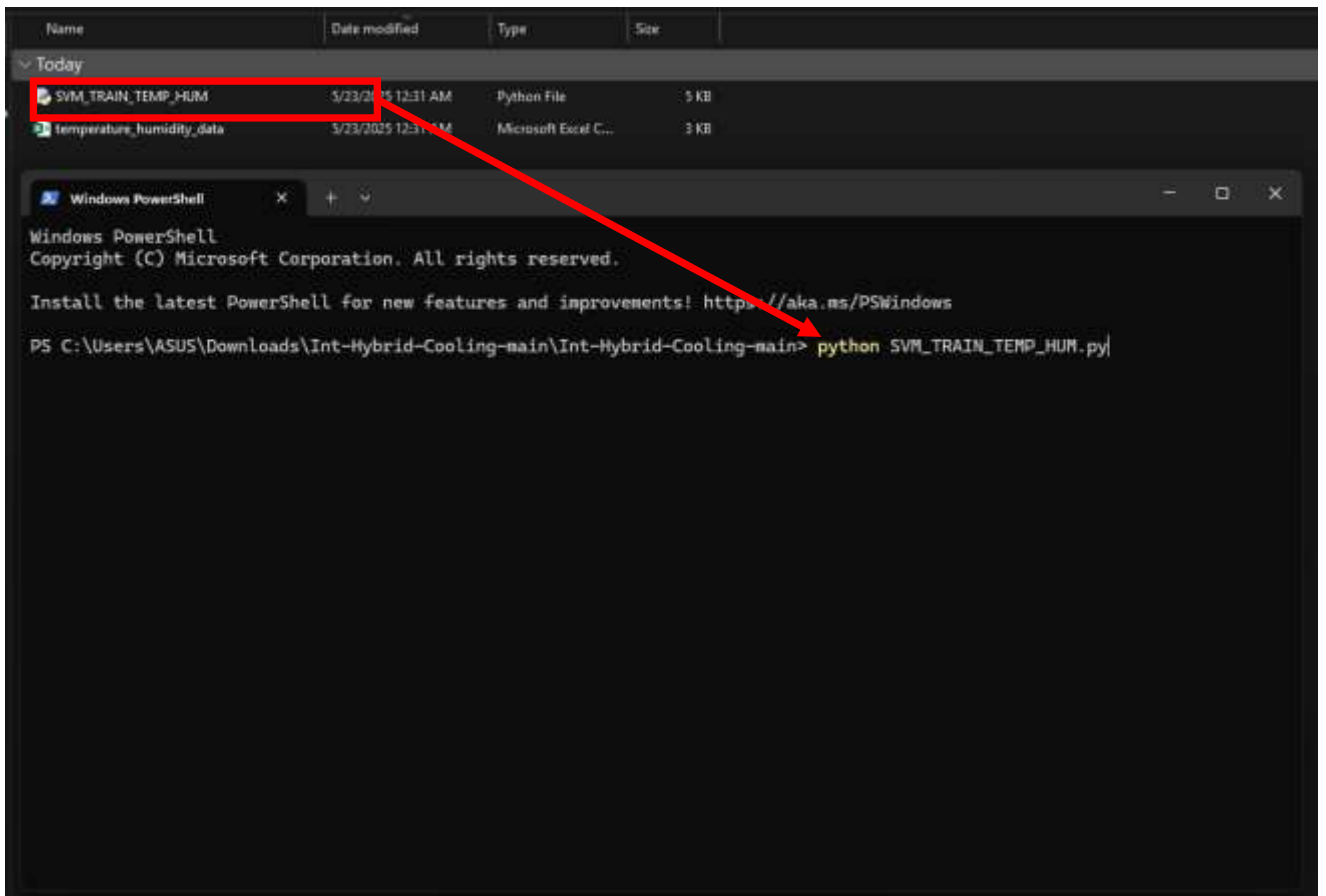


Check the Dataset  
Temperature\_humidity\_data.csv

Run the python code



Type **python SVM\_TRAIN\_TEMP\_HUM.py**



The results will now be created on a new csv file.

File Explorer

Today

SVM\_TRAIN\_TEMP\_HUM

5/23/2025 12:31 AM

Python File

5 KB

temperature\_humidity\_data

5/23/2025 12:31 AM

Microsoft Excel C...

3 KB

labeled\_temperature\_humidity\_data

5/23/2025 12:38 AM

Microsoft Excel C...

5 KB

Windows PowerShell

7 2023-05-12 Friday 3:00 PM 32.4 hot 71 humid high medium

8 2023-05-12 Friday 4:00 PM 32.4 hot 70 humid high medium

9 2023-05-12 Friday 5:00 PM 32.2 hot 70 humid high medium

Classification Accuracy: 1.0

Classification Report:

	precision	recall	f1-score	support
hot	1.00	1.00	1.00	15
very hot	1.00	1.00	1.00	1
accuracy			1.00	16
macro avg	1.00	1.00	1.00	16
weighted avg	1.00	1.00	1.00	16

Labeled dataset saved to labeled\_temperature\_humidity\_data.csv

PS C:\Users\ASUS\Downloads\Int-Hybrid-Cooling-main\Int-Hybrid-Cooling-main> |

AutoSave Off

labeled\_temperature\_humidity\_data

Saved to this PC

Date	Day	Time	Temperature	Humidity	Temp_Lab	Humidity_Lab	Fan_Action	Humidifier_Action
5/12/2023	Friday	8:00 AM	30.8	80	hot	humid	high	medium
5/12/2023	Friday	9:00 AM	31	78	hot	humid	high	medium
5/12/2023	Friday	10:00 AM	31.4	77	hot	humid	high	medium
5/12/2023	Friday	11:00 AM	31.9	76	hot	humid	high	medium
5/12/2023	Friday	12:00 PM	32.3	75	hot	humid	high	medium
5/12/2023	Friday	1:00 PM	32.9	73	hot	humid	high	medium
5/12/2023	Friday	2:00 PM	32.7	72	hot	humid	high	medium
5/12/2023	Friday	3:00 PM	32.4	71	hot	humid	high	medium
5/12/2023	Friday	4:00 PM	32.4	70	hot	humid	high	medium
5/12/2023	Friday	5:00 PM	32.2	70	hot	humid	high	medium
5/13/2023	Saturday	8:00 AM	30.3	80	hot	humid	high	medium
5/13/2023	Saturday	9:00 AM	30.9	79	hot	humid	high	medium
5/13/2023	Saturday	10:00 AM	31.3	79	hot	humid	high	medium
5/13/2023	Saturday	11:00 AM	31.8	77	hot	humid	high	medium
5/13/2023	Saturday	12:00 PM	32.1	75	hot	humid	high	medium
5/13/2023	Saturday	1:00 PM	32.6	73	hot	humid	high	medium
5/13/2023	Saturday	2:00 PM	32.7	73	hot	humid	high	medium
5/13/2023	Saturday	3:00 PM	32.4	72	hot	humid	high	medium
5/13/2023	Saturday	4:00 PM	32.4	70	hot	humid	high	medium
5/13/2023	Saturday	5:00 PM	32.2	69	hot	humid	high	medium
5/14/2023	Sunday	8:00 AM	30.5	83	hot	very humid	high	high
5/14/2023	Sunday	9:00 AM	30.9	83	hot	very humid	high	high
5/14/2023	Sunday	10:00 AM	31.4	81	hot	very humid	high	high
5/14/2023	Sunday	11:00 AM	31.7	80	hot	humid	high	medium
5/14/2023	Sunday	12:00 PM	32.1	80	hot	humid	high	medium
5/14/2023	Sunday	1:00 PM	32.3	76	hot	humid	high	medium
5/14/2023	Sunday	2:00 PM	32.5	74	hot	humid	high	medium
5/14/2023	Sunday	3:00 PM	32.5	74	hot	humid	high	medium
5/14/2023	Sunday	4:00 PM	33.4	72	hot	humid	high	medium
5/14/2023	Sunday	5:00 PM	33.3	70	hot	humid	high	medium
5/15/2023	Monday	8:00 AM	31.3	80	hot	humid	high	medium
5/15/2023	Monday	9:00 AM	31.5	80	hot	humid	high	medium
5/15/2023	Monday	10:00 AM	32.5	78	hot	humid	high	medium
5/15/2023	Monday	11:00 AM	33.8	78	hot	humid	high	medium