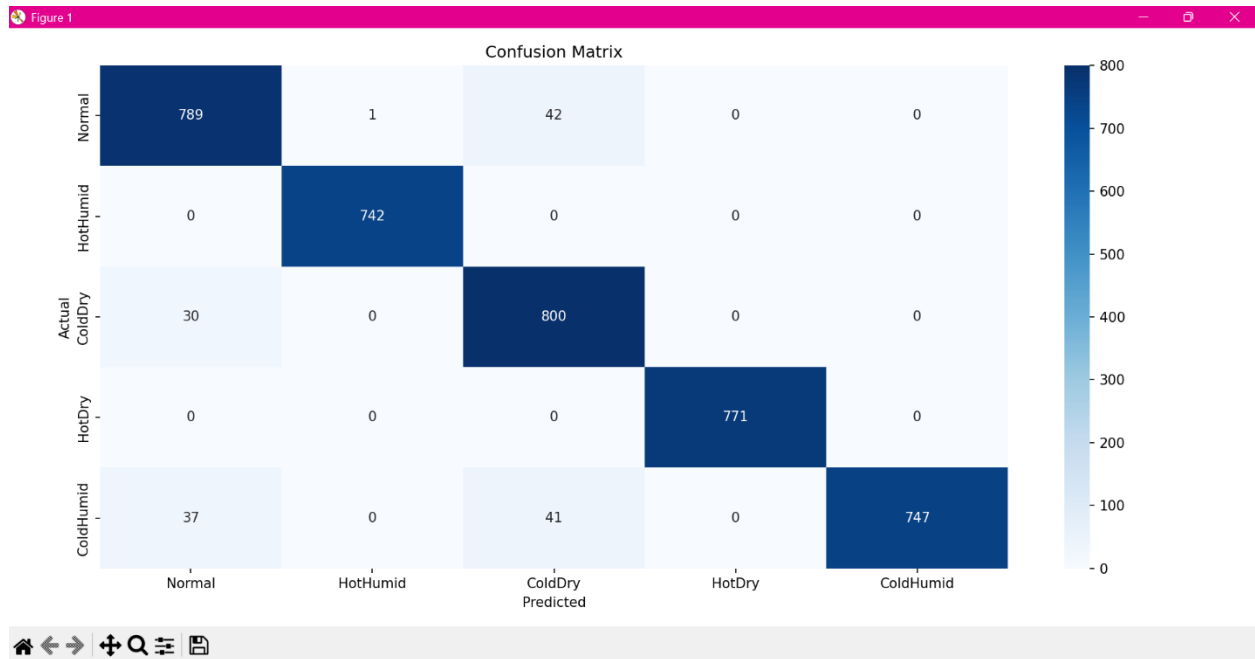


-
- The screenshot shows a VS Code editor window with the following components:
- File Explorer (Left):** Shows the project structure with files like `0-train_model.py`, `1-dht_data_only.py`, `2-train_model_with_noise.py`, and `3-classify_2_influx.py`.
 - Editor (Center):** Displays the code for `1-dht_data_only.py`. The code reads a message from a queue, decodes it, and prints the received humidity. The output console shows the script running successfully, printing "Received Humidity: 60.0%".
 - Output Console (Bottom):** Shows the output of the script, which is "Received Humidity: 60.0%".

The screenshot displays the InfluxDB Data Explorer interface. At the top, the browser address bar shows the URL: `localhost:8086/orgs/3518c3bc6147a48a/data-explorer?fluxScriptEditor`. The main header includes the "Data Explorer" title and a "CUSTOMIZE" button. Below the header, there's a "Table" view selector and a "Local" dropdown. The central area shows a table of data points with columns for time, measurement, field, and device. The "Filter tables..." section on the left shows a query: `_field = humidity _measurement = dht_data device = esp32`. Below this, the "Query 1 (0.02s)" section shows the query: `SELECT * FROM dht_data WHERE _measurement = dht_data AND _field = humidity AND device = esp32`. The "SCRIPT EDITOR" section on the right shows the query: `SELECT * FROM dht_data WHERE _measurement = dht_data AND _field = humidity AND device = esp32`. The "VIEW RAW DATA" section shows a table of data points with columns for time, measurement, field, and device. The "WINDOW PERIOD" section shows "CUSTOM" and "AUTO" options. The "AGGREGATE FUNCTION" section shows "CUSTOM" and "AUTO" options.

Time	Measurement	Field	Device
2025-05-16 12:28:58 G...	dht_data	humidity	esp32
2025-05-16 12:29:58 G...	dht_data	humidity	esp32
2025-05-16 12:29:51 G...	dht_data	humidity	esp32
2025-05-16 12:28:58 G...	dht_data	humidity	esp32
2025-05-16 12:29:58 G...	dht_data	humidity	esp32
2025-05-16 12:29:53 G...	dht_data	humidity	esp32
2025-05-16 12:28:58 G...	dht_data	humidity	esp32
2025-05-16 12:29:58 G...	dht_data	humidity	esp32
2025-05-16 12:29:54 G...	dht_data	humidity	esp32
2025-05-16 12:28:58 G...	dht_data	humidity	esp32
2025-05-16 12:29:58 G...	dht_data	humidity	esp32
2025-05-16 12:29:56 G...	dht_data	humidity	esp32
2025-05-16 12:28:58 G...	dht_data	humidity	esp32
2025-05-16 12:29:58 G...	dht_data	humidity	esp32
2025-05-16 12:29:57 G...	dht_data	humidity	esp32

5. The next code is for creating a neural network to classify the data sent by esp based on environmental conditions.



6. Last code uses mosquitto, trained model and influx db to take real time data from esp, classifying it through the model and storing it in time based series.

```
python-scripts
1-dht_data_only.py 2
2-train_model_with_noise.py 9+
3-classify_2_influx.py 5 x

3-classify_2_influx.py > ...
25 "Normal",
26 "Hot and Humid",
27 "Cold and Dry",
28 "Hot and Dry",
29 "Cold and Humid"

PROBLEMS 09 OUTPUT DEBUG CONSOLE TERMINAL PORTS SPELL CHECKER 82 Filter Code
Predicted Class: Hot and Humid
Writing to InfluxDB: dht_data,device=esp32 class_label="Hot and Humid",humidity=60,temperature=29.7 1747380690588600000
Data saved: Temp=29.70, Hum=60.00, Class=Hot and Humid
Received Humidity: 60.00%
Received Temperature: 29.70°C
Predicted Class: Hot and Humid
Writing to InfluxDB: dht_data,device=esp32 class_label="Hot and Humid",humidity=60,temperature=29.7 1747380694498621000
Data saved: Temp=29.70, Hum=60.00, Class=Hot and Humid
Received Humidity: 60.00%
Received Temperature: 29.80°C
Predicted Class: Hot and Humid
Writing to InfluxDB: dht_data,device=esp32 class_label="Hot and Humid",humidity=60,temperature=29.8 1747380694630829000
Data saved: Temp=29.80, Hum=60.00, Class=Hot and Humid
Received Humidity: 60.00%
Received Temperature: 29.80°C
Predicted Class: Hot and Humid
Writing to InfluxDB: dht_data,device=esp32 class_label="Hot and Humid",humidity=60,temperature=29.8 1747380694808823000
Data saved: Temp=29.80, Hum=60.00, Class=Hot and Humid
Received Humidity: 60.00%
Received Temperature: 29.70°C
Predicted Class: Hot and Humid
Writing to InfluxDB: dht_data,device=esp32 class_label="Hot and Humid",humidity=60,temperature=29.7 1747380718558440000
Data saved: Temp=29.70, Hum=60.00, Class=Hot and Humid
Received Humidity: 60.00%
```