

RESULTS

➤ ThingSpeak Storage

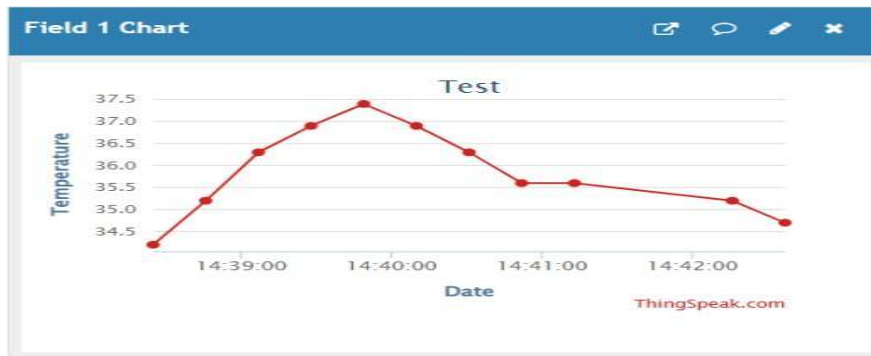


Figure 1: Real-Time data storage of Temperature value in ThingSpeak

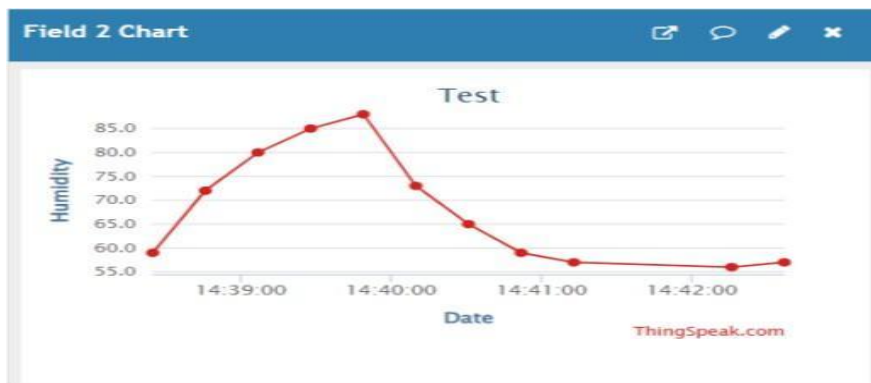


Figure 2: Real-Time data storage of Humidity value in ThingSpeak

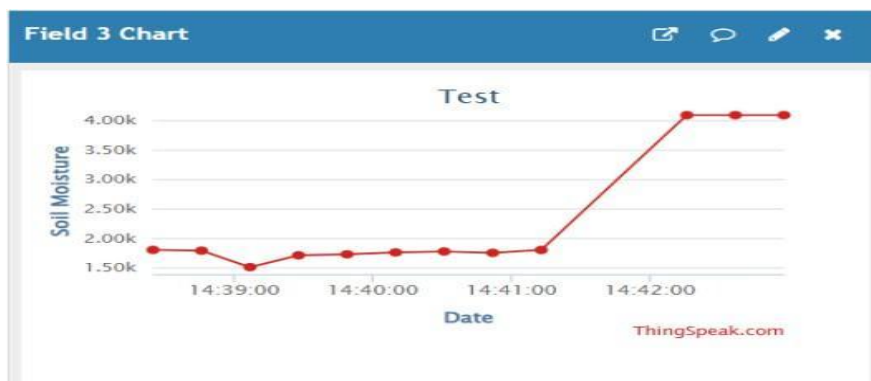


Figure 3: Real-Time data storage of Soil Moisture value in ThingSpeak

➤ Predicted Output in MATLAB

```
Command Window

    Maize          30
    Rice           30
    Wheat         30

Sensor Readings:
Temperature: 36.30°C
Humidity: 80.00%
Soil Moisture: 37.00%
Predicted Suitable Crop: Rice
Optimized Model Accuracy: 98.89%
fx >> |
```

Figure 4: Case (i): Predicted Rice as Output from Sensor Data in MATLAB

```
Command Window

    Maize          30
    Rice           30
    Wheat         30

Sensor Readings:
Temperature: 36.30°C
Humidity: 65.00%
Soil Moisture: 43.49%
Predicted Suitable Crop: Wheat
Optimized Model Accuracy: 98.89%
fx >>
```

Figure 5: Case (ii): Predicted Wheat as Output from Sensor Data in MATLAB

```
Command Window

    Maize          30
    Rice           30
    Wheat         30

Sensor Readings:
Temperature: 35.20°C
Humidity: 56.00%
Soil Moisture: 100.00%
Predicted Suitable Crop: Maize
Optimized Model Accuracy: 98.89%
fx >>
```

Figure 6: Case (iii): Predicted Maize as Output from Sensor Data in MATLAB