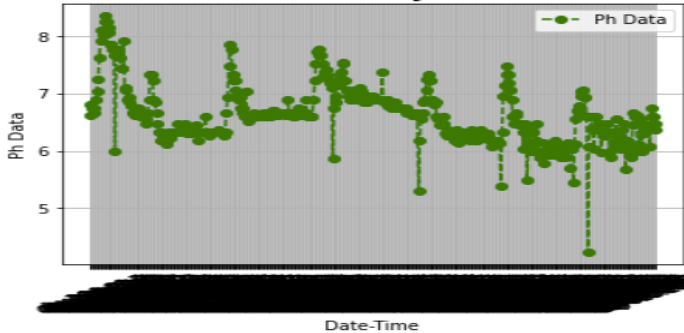
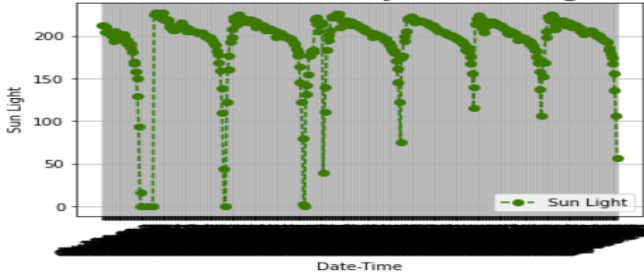
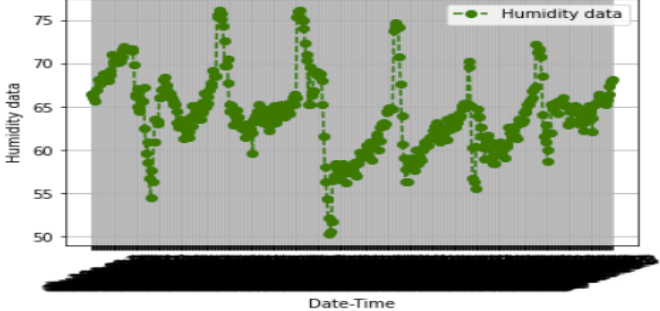
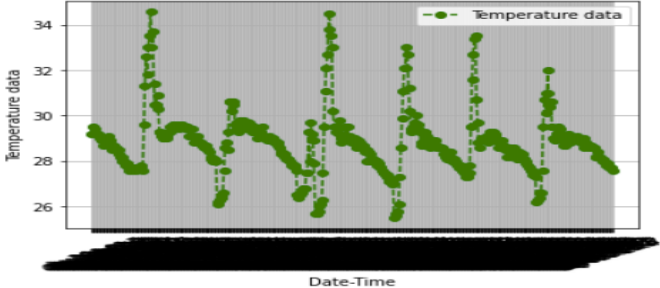
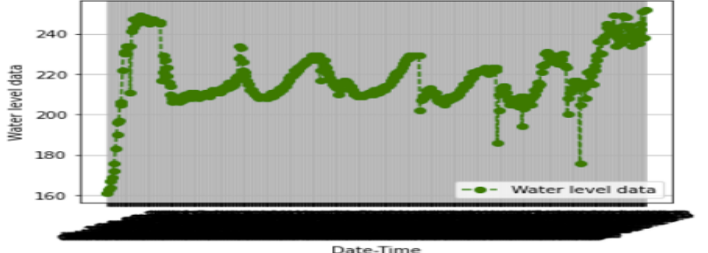
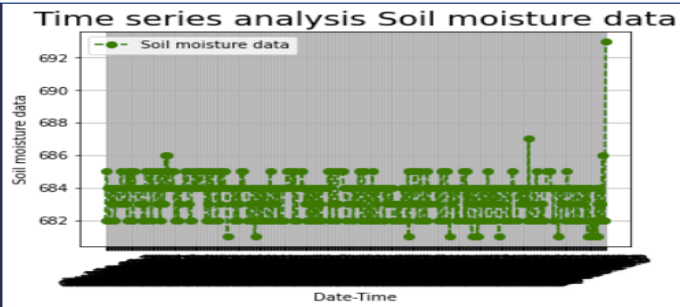


## HYDROPONIC SYSTEM DATA DESCRIPTION

Time series analysis of phase 1 (planting phase)

PARAMETERS	CHART
PH	<p>Time series analysis Ph Data</p>  <p>The chart displays pH data over time. The y-axis is labeled 'Ph Data' and ranges from 5 to 8. The x-axis is labeled 'Date-Time'. The data points, represented by green dots connected by a dashed line, show a fluctuating trend, generally staying between 6 and 8, with a notable dip around the middle of the time period.</p>
LUMINOUS INTENSITY	<p>Time series analysis Sun Light</p>  <p>The chart displays sun light intensity over time. The y-axis is labeled 'Sun Light' and ranges from 0 to 200. The x-axis is labeled 'Date-Time'. The data points, represented by green dots connected by a dashed line, show a clear periodic pattern, with peaks reaching approximately 200 and troughs dropping to near 0, indicating a daily cycle of light exposure.</p>
HUMIDITY	<p>Time series analysis Humidity data</p>  <p>The chart displays humidity data over time. The y-axis is labeled 'Humidity data' and ranges from 50 to 75. The x-axis is labeled 'Date-Time'. The data points, represented by green dots connected by a dashed line, show a fluctuating trend, generally staying between 55 and 75, with a notable dip around the middle of the time period.</p>
TEMPERATURE	<p>Time series analysis Temperature data</p>  <p>The chart displays temperature data over time. The y-axis is labeled 'Temperature data' and ranges from 26 to 34. The x-axis is labeled 'Date-Time'. The data points, represented by green dots connected by a dashed line, show a fluctuating trend, generally staying between 26 and 34, with a notable dip around the middle of the time period.</p>
SOIL MOISTURE	<p>Time series analysis Water level data</p>  <p>The chart displays water level data over time. The y-axis is labeled 'Water level data' and ranges from 160 to 240. The x-axis is labeled 'Date-Time'. The data points, represented by green dots connected by a dashed line, show a fluctuating trend, generally staying between 180 and 240, with a notable dip around the middle of the time period.</p>

## WATER LEVEL



### Range of parameters

PARAMETER	MAX	MIN
PH	8.37	4.23
LUMINOUS INTENSITY	228	0
HUMIDITY	76.2	50.3
TEMPERATURE	34.6	25.5
SOIL MOISTURE	687	676
WATER LEVEL	252	161

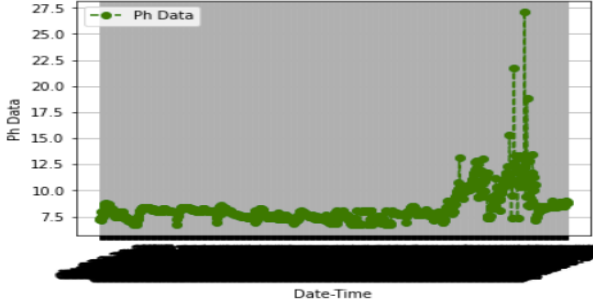
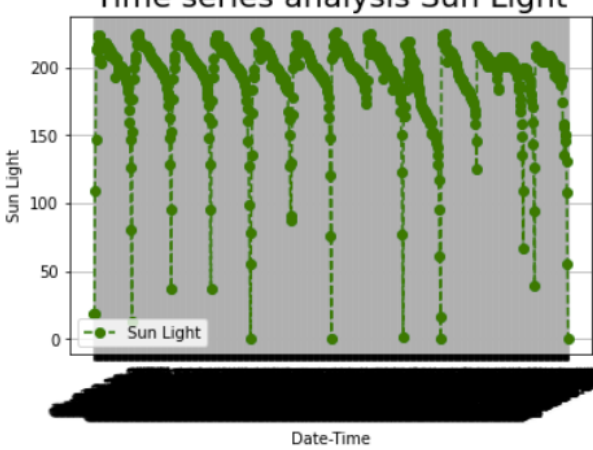
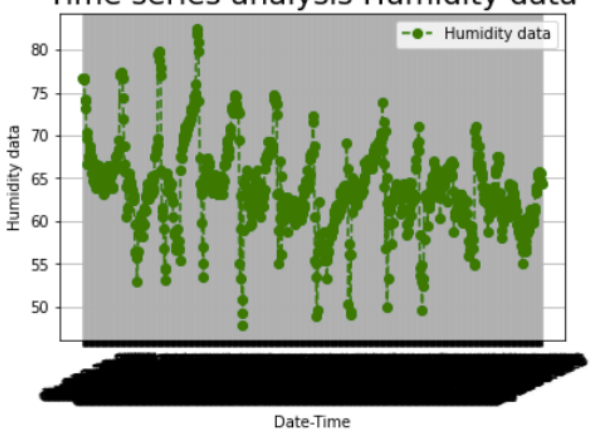
### Dataset Description

TYPE	DESCRIPTION
Data set Characteristic	Multivariant
Attribute Characteristics	Timestamp, Integer, Real
Associated Tasks	Regression
Number of Instances	469
Number of attributes	841

### Attribute Information

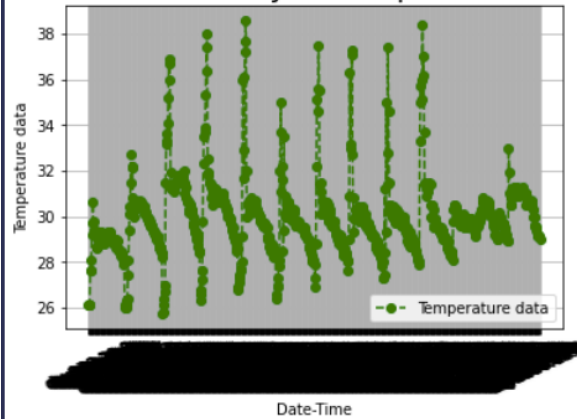
- 1) Day(1-28)
- 2) Timestamp(HH:MM:SS)
- 3) Ph value
- 4) Luminous intensity
- 5) Humidity
- 6) Temperature
- 7) Water level
- 8) Soil Moisture

## Time series analysis of phase 2 (Growing phase)

PARAMETERS	CHART
PH	<p data-bbox="715 394 1166 423">Time series analysis Ph Data</p>  <p data-bbox="900 703 979 719">Date-Time</p> <p>The chart displays 'Ph Data' on the y-axis (ranging from 7.5 to 27.5) against 'Date-Time' on the x-axis. The data points, represented by green dots, show a relatively stable trend around 8.0 until approximately the 15th day, after which there is a significant upward trend, peaking near 25.0 towards the end of the period.</p>
LUMINOUS INTENSITY	<p data-bbox="699 730 1182 759">Time series analysis Sun Light</p>  <p data-bbox="900 1189 979 1205">Date-Time</p> <p>The chart displays 'Sun Light' on the y-axis (ranging from 0 to 200) against 'Date-Time' on the x-axis. The data points, represented by green dots, show a highly periodic, oscillatory pattern, fluctuating between approximately 0 and 200 throughout the entire duration.</p>
HUMIDITY	<p data-bbox="651 1218 1182 1247">Time series analysis Humidity data</p>  <p data-bbox="884 1659 963 1675">Date-Time</p> <p>The chart displays 'Humidity data' on the y-axis (ranging from 50 to 80) against 'Date-Time' on the x-axis. The data points, represented by green dots, show a fluctuating pattern, generally staying between 50 and 80, with a slight overall upward trend towards the end of the period.</p>

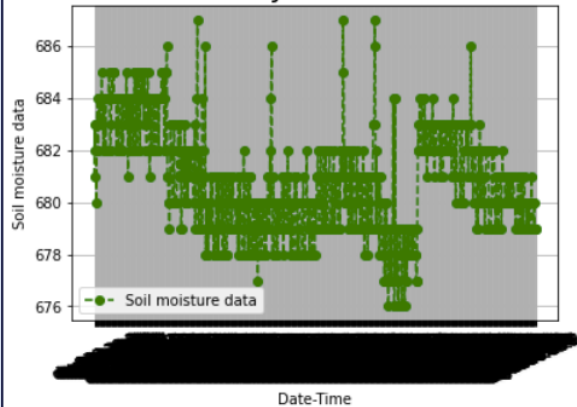
## TEMPERATURE

Time series analysis Temperature data



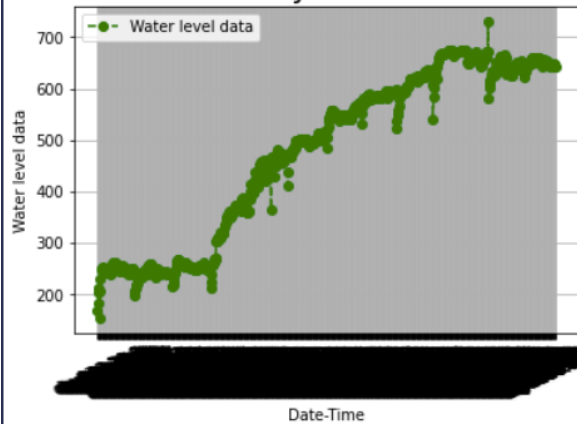
## SOIL MOISTURE

Time series analysis Soil moisture data



## WATER LEVEL

Time series analysis Water level data



## Range of parameters

PARAMETER	MAX	MIN
PH	27.13	6.68
LUMINOUS INTENSITY	226	0
HUMIDITY	82.5	47.8
TEMPERATURE	38.6	25.7
SOIL MOISTURE	687	579
WATER LEVEL	731	153

### Dataset Description

TYPE	DESCRIPTION
Data set Characteristic	Multivariant
Attribute Characteristics	Timestamp, Integer, Real
Associated Tasks	Regression
Number of Instances	841
Number of attributes	8

### Attribute Information

- 1) Day(1-28)
- 2) Timestamp(HH:MM:SS)
- 3) Ph value
- 4) Luminous intensity
- 5) Humidity
- 6) Temperature
- 7) Water level
- 8) Soil Moisture