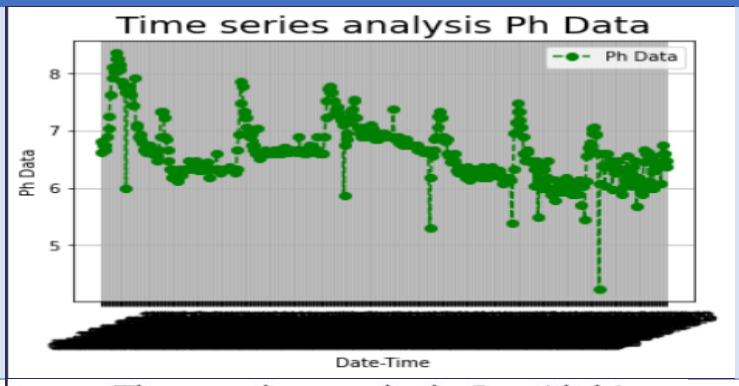
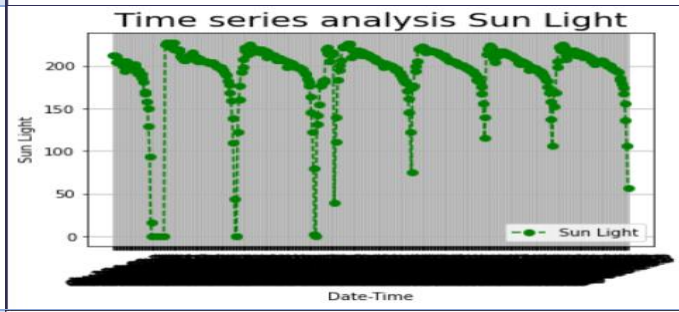
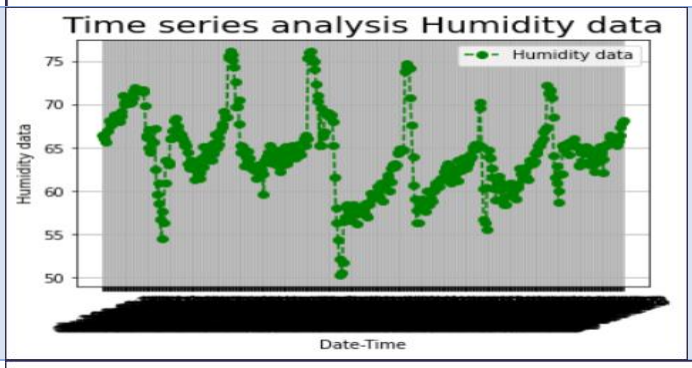
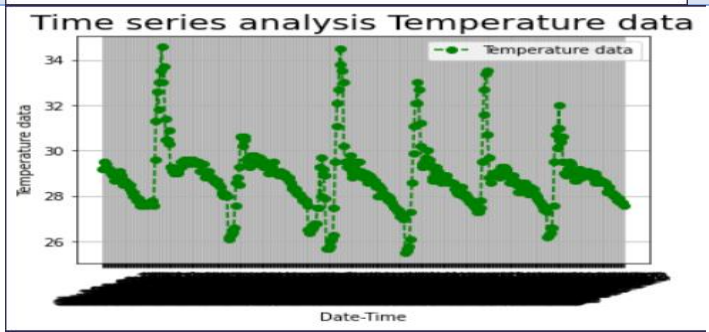
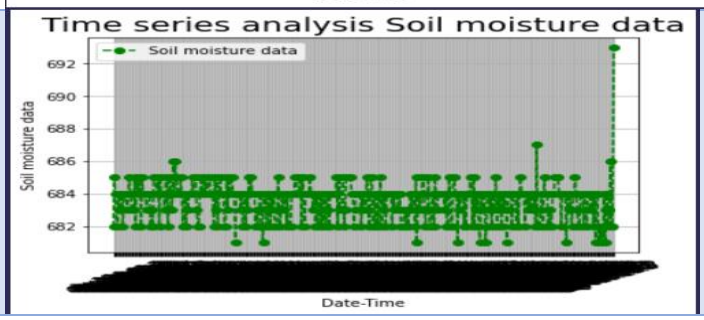
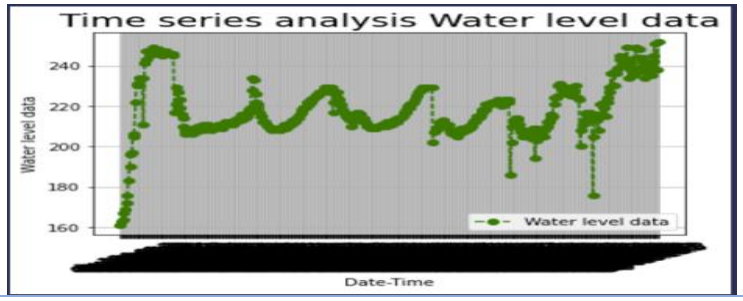
HYDROPHONIC SYSTEM DATA DESCRIPTION

Time series analysis of phase 1 (planting phase)

PARAMETERS	CHART
PH	
LUMINOUS INTENSITY	
HUMIDITY	
TEMPERATURE	
SOIL MOISTURE	

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

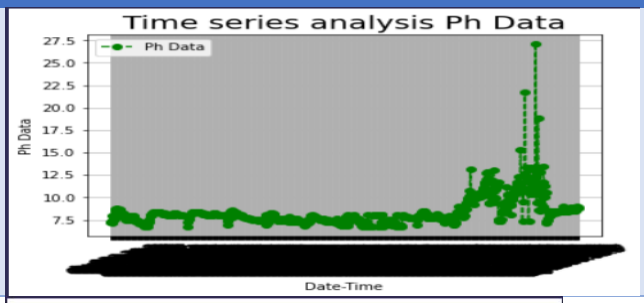
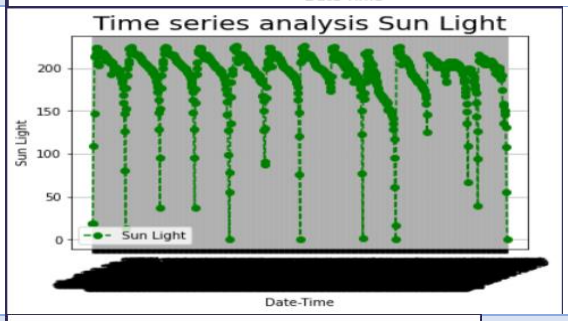
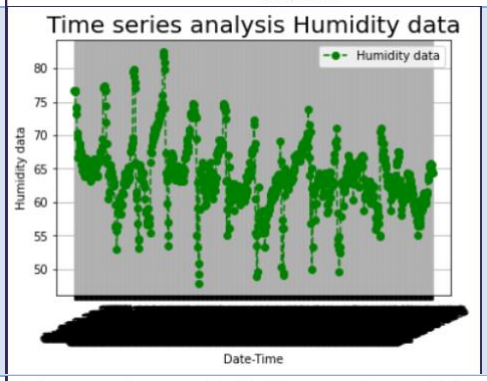
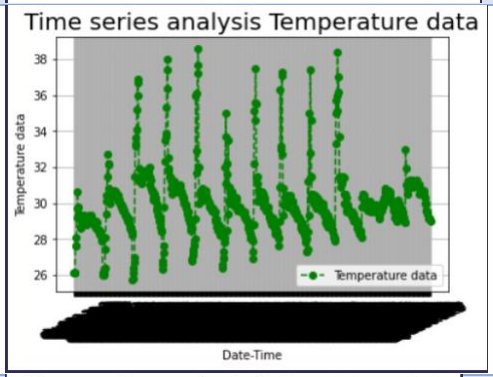
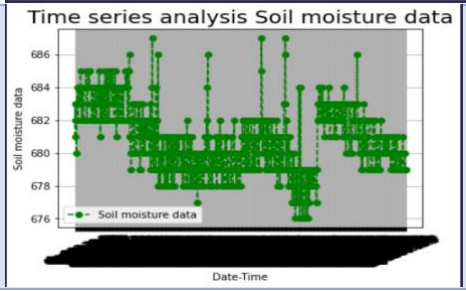
Dataset Description

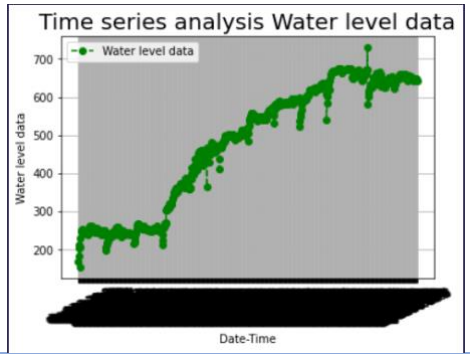
TYPE	DESCRIPTION
Data set Characteristic	Multivariant
Attribute Characteristics	Timestamp, Integer, Real
Associated Tasks	Regression
Number of Instances	469
Number of attributes	841

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	
LUMINOUS INTENSITY	
HUMIDITY	
TEMPERATURE	
SOIL MOISTURE	

WATER LEVEL	

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

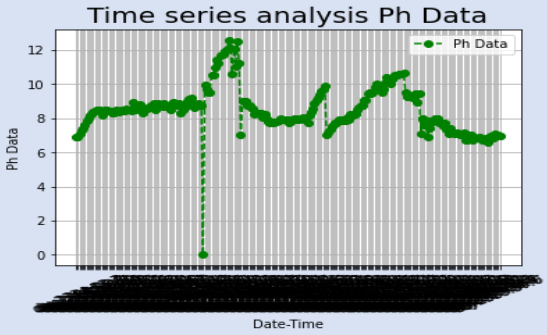
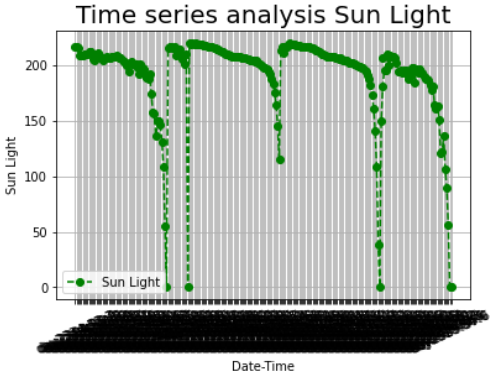
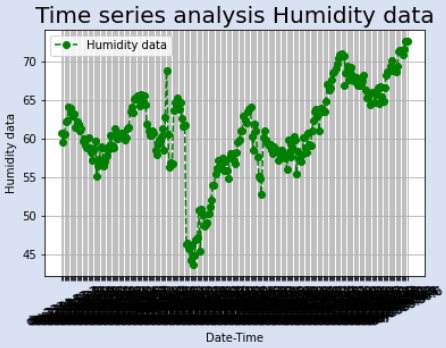
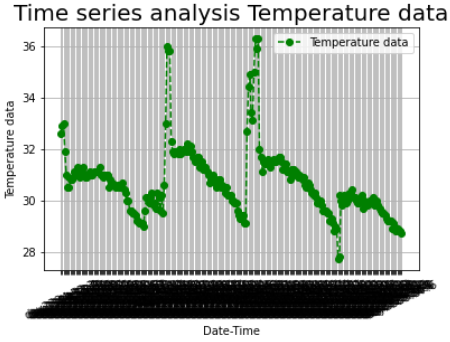
Dataset Description

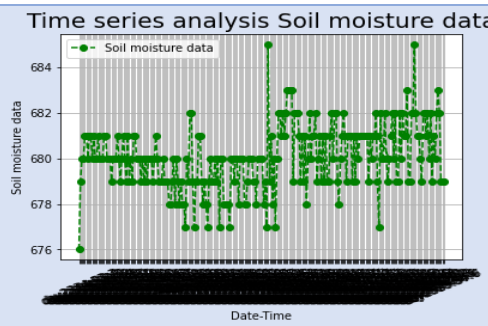
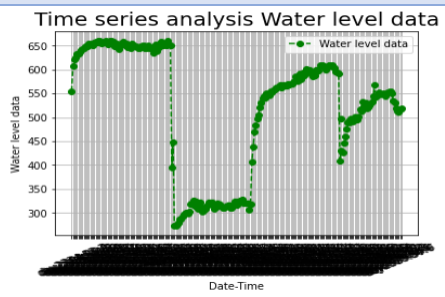
TYPE	DESCRIPTION
Data set Characteristic	Multivariant
Attribute Characteristics	Timestamp, Integer, Real
Associated Tasks	Regression
Number of Instances	841
Number of attributes	8

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

Time series analysis of phase 3 (Harvesting Phase)

PARAMETERS	CHART
PH	
LUMINOUS INTENSITY	
HUMIDITY	
TEMPERATURE	

SOIL MOISTURE	
WATER LEVEL	

Range of parameters

PARAMETER	MAX	MIN
PH	12.59	0
LUMINOUS INTENSITY	220	0
HUMIDITY	72.7	43.6
TEMPERATURE	36.3	27.7
SOIL MOISTURE	685	676
WATER LEVEL	661	272

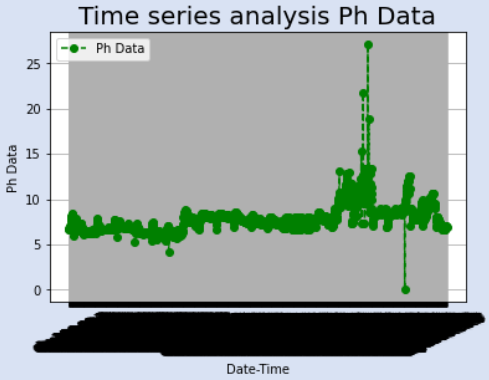
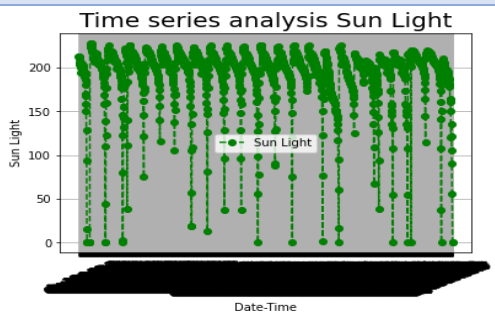
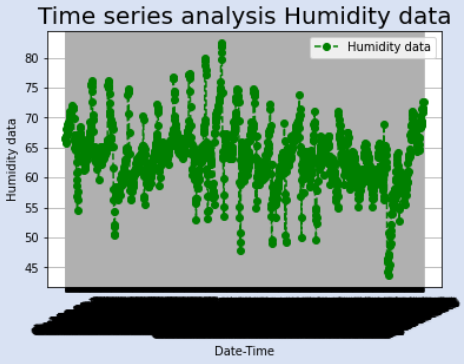
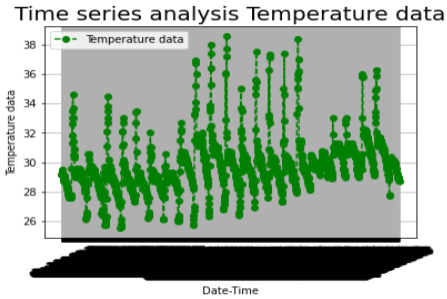
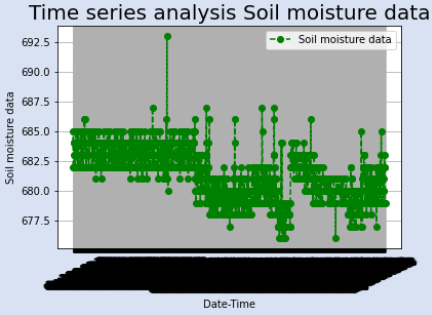
Dataset Description

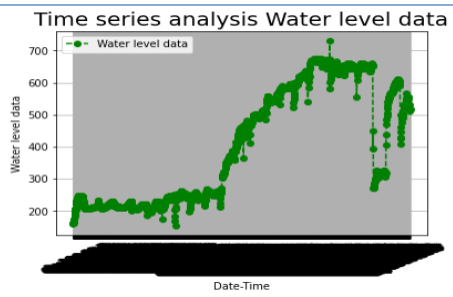
TYPE	DESCRIPTION
Data set Characteristic	Multivariant
Attribute Characteristics	Timestamp, Integer, Real
Associated Tasks	Regression
Number of Instances	250
Number of attributes	8

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

Time series analysis of all phases combined

PARAMETERS	CHART
PH	
LUMINOUS INTENSITY	
HUMIDITY	
TEMPERATURE	
SOIL MOISTURE	

WATER LEVEL	

Range of parameters

PARAMETER	MAX	MIN
PH	27.13	0
LUMINOUS INTENSITY	228	0
HUMIDITY	82.5	43.6
TEMPERATURE	38.6	25.5
SOIL MOISTURE	693	676
WATER LEVEL	731	153

Dataset Description

TYPE	DESCRIPTION
Data set Characteristic	Multivariant
Attribute Characteristics	Timestamp, Integer, Real
Associated Tasks	Regression
Number of Instances	1559
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