* **Mean Absolute Error(MAE)**
* **Root Mean Squared Error(MASE)**
* **Root Mean Squared Log Error (RMSE)**
* **R Squared(R2)**

LINEAR VARIATION

INITIAL PHASE ANALYSIS

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **PARAMETER VS PARAMETER** | **PH** | **SUNLIGHT** | **HUMIDITY** | **TEMPERATURE** | **SOILMOISTURE** | **WATER LEVEL** |
| PH | X | MAE=26.54 MASE=1702.59 RMSE=41.26 R2=-0.00288 | MAE=3.13 MASE=17.055 RMSE=4.1298 R2= 0.03718 | MAE=0.9522 MASE=2.0584 RMSE=1.43474 R2=-0.003785 | MAE=0.9161 MASE=1.1950 RMSE=1.0931 R2=-0.011836 | MAE= 11.9423. MASE= 233.031 RMSE= 15.265 R2=-0.0039 |
| SUNLIGHT | MAE=0.3905 MASE= 0.2885 RMSE= 0.5371 R2= -0.00707 | X | MAE= 2.9133 MASE= 16.551 RMSE= 4.0683 R2= 0.0650 | MAE= 0.7492 MASE= 1.268 RMSE= 1.126 R2= 0.145 | MAE=0.902 MASE=1.160 RMSE= 1.077 R2=-0.0417 | MAE=1.0388 MASE= 1.521 RMSE= 1.233 R2=0.078 |
| HUMIDITY | MAE=0.3817 MASE=0.253 RMSE= 0.503 R2=-0.0074 | MAE=21.29 MASE= 1630.14 RMSE= 40.375 R2= 0.157 | X | MAE= 0.831 MASE= 1.205 RMSE= 1.097 R2= 0.517 | MAE=0.875 MASE=1.06 RMSE=1.033 R2= -0.0056 | MAE=9.843 MASE=174.68 RMSE=13.21 R2=0.0941 |
| TEMPERATURE | MAE=0.409 MASE=0.316 RMSE= 0.562 R2=0.0032 | MAE=22.06 MASE=1529.58 RMSE=39.109 R2=0.216 | MAE=2.64 MASE=10.3 RMSE=3.214 R2=0.505 | X | MAE=0.9160 MASE=1.190 RMSE=1.090 R2=-0.012 | MAE=9.714 MASE=168.86 RMSE=12.99 R2=0.087 |
| SOILMOISTURE | MAE= 0.389 MASE= 0.278 RMSE= 0.527 R2= = -0.0094 | MAE=24.12 MASE= 1462.23 RMSE= 38.23 R2=0.0032 | MAE= 0.933 MASE=2.1119 RMSE= 1.453 R2= -0.0231 | MAE=2.890 MASE=15.77 RMSE= 3.97 R2=-0.018 | X | MAE=11.212 MASE=229.93 RMSE= 15.16 R2= -0.0049 |
| WATER LEVEL | MAE= 0.339 MASE=0.232 RMSE=0.4819 R2=0.0221 | MAE= 22.450 MASE= 1350.67 RMSE= 36.75 R2= 0.190 | MAE= 3.35 MASE=2.043 RMSE=1.4296 R2=0.0010 | MAE=3.356 MASE=18.41 RMSE=4.29 R2=0.039 | MAE=0.797 MASE=1.540 RMSE= 1.240 R2= 0.0032 | X |

GROWING PHASE ANALYSIS

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| **PARAMETER VS PARAMETER** | **PH** | **SUNLIGHT** | **HUMIDITY** | **TEMPERATURE** | **SOILMOISTURE** | **WATER LEVEL** |
| PH | X | MAE=21.157 MASE=1228.42 RMSE=35.04 R2=-0.0048 | MAE=3.400 MASE=21.329 RMSE=4.618 R2= -0.0108 | MAE=1.155 MASE=3.1804 RMSE=1.783 R2=-0.0061 | MAE=1.6315 MASE=3.9975 RMSE=1.999 R2=0.0096 | MAE= 136.46. MASE= 23789.17 RMSE= 154.2 R2=0.1199 |
| SUNLIGHT | MAE=0.944 MASE= 2.5054 RMSE= 1.582 R2= 0.0000523 | X | MAE= 3.309 MASE= 20.457 RMSE= 4.522 R2=0.194 | MAE= 1.010 MASE= 2.544 RMSE= 1.595 R2= 0.1704 | MAE=1.556 MASE=3.836 RMSE= 1.958 R2=0.0247 | MAE=1.562 MASE= 3.678 RMSE= 1.917 R2=0.033 |
| HUMIDITY | MAE=0.9677 MASE=2.328 RMSE= 1.525 R2=0.00814 | MAE=19.44 MASE= 1072.59 RMSE= 32.750 R2= 0.1304 | X | MAE= 0.943 MASE= 1.686 RMSE= 1.298 R2= 0.5603 | MAE=1.6009 MASE=3.845 RMSE=1.96 R2= 0.00245 | MAE=134.715 MASE=24155.87 RMSE=155.42 R2=0.1037 |
| TEMPERATURE | MAE=0.8932 MASE=1.6079 RMSE=1.268 R2=-0.0076 | MAE=18.107 MASE=888.58 RMSE=29.80 R2=0.165 | MAE=2.487 MASE=10.05 RMSE=3.171 R2=0.563 | X | MAE=1.780 MASE=4.511 RMSE=2.123 R2=-0.0042 | MAE=142.16 MASE=25289.25  RMSE=159.02 R2=0.0057 |
| SOILMOISTURE | MAE= 0.959 MASE= 2.385 RMSE= 1.544 R2= = 0.01081 | MAE=19.289 MASE= 834.443 RMSE= 28.88 R2=0.0037 | MAE= 1.0317 MASE=2.1168 RMSE=1.454 R2= -0.0373 | MAE=3.3324 MASE=21.27 RMSE= 4.612 R2=-0.00273 | X | MAE=130.00 MASE=23137.316  RMSE= 152.109  R2= 0.0110 |
| WATER LEVEL | MAE= 0.886 MASE=2.728 RMSE=1.65 R2=0.1177 | MAE= 20.0011 MASE= 1183.82 RMSE= 34.406 R2= 0.0038 | MAE= 1.563 MASE=3.701 RMSE= 1.923 R2=0.0199 | MAE=3.494 MASE=20.4542 RMSE=4.5226 R2=0.073 | MAE=1.173 MASE=2.624 RMSE= 1.62 R2= 0.0017 | X |

HARVESTING PHASE ANALYSIS

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| PARAMETER VS PARAMETER | PH | SUNLIGHT | HUMIDITY | TEMPERATURE | SOILMOISTURE | WATER LEVEL |
| PH | X | MAE=22.685 MASE=1027.818 RMSE=32.059 R2=-0.020 | MAE=4.589 MASE=33.367 RMSE=5.77 R2= -0.154 | MAE=0.906 MASE=1.836 RMSE=1.35 R2=0.0653 | MAE=1.1328 MASE=1.821 RMSE=1.349 R2=0.032 | MAE= 100.54. MASE=15723.309 RMSE= 125.392 R2=-0.05177 |
| SUNLIGHT | MAE=0.9731 MASE= 1.421 RMSE= 1.192 R2= -0.0967 | X | MAE= 3.446 MASE= 20.575 RMSE= 4.535 R2= 0.1587 | MAE= 0.7630 MASE=1.6451 RMSE= 1.282 R2= 0.2184 | MAE=0.945 MASE=1.470 RMSE= 1.212 R2=-0.0047 | MAE=1.0651 MASE= 1.972 RMSE= 1.404 R2=0.00676 |
| HUMIDITY | MAE=0.8707 MASE=1.2903 RMSE= 1.1359 R2=0.153 | MAE=19.1465 MASE= 1114.27 RMSE= 33.38 R2= 0.205 | X | MAE=0.725 MASE= 1.277 RMSE= 1.130 R2= 0.290 | MAE=1.008 MASE=1.796 RMSE=1.340 R2= 0.01474 | MAE=108.25 MASE=14820.36 RMSE=121.738 R2=0.207 |
| TEMPERATURE | MAE=0.9607 MASE=1.441 RMSE=1.2004 R2=0.075 | MAE=20.242 MASE=1750.404 RMSE=41.837 R2=0.2634 | MAE=3.8819 MASE=25.495 RMSE=5.049 R2=0.3559 | X | MAE=1.130 MASE=2.060 RMSE=1.435 R2=0.00103 | MAE=111.24 MASE=16898.54RMSE=129.99 R2=0.026065 |
| SOILMOISTURE | MAE= 0.9433 MASE= 2.2974 RMSE= 1.515 R2= = -0.0189 | MAE=23.149 MASE= 1434.32 RMSE= 37.87 R2=-0.00766 | MAE= 1.0291 MASE=1.813 RMSE= 1.346 R2= -0.1067 | MAE=4.599 MASE=33.304 RMSE= 5.770 R2=-0.0732 | X | MAE=105.00 MASE=16357.032 RMSE=127.894 R2= -0.004 |
| WATER LEVEL | MAE= 0.9163 MASE=1.311 RMSE=1.145 R2=0.0459 | MAE= 28.312 MASE= 2365.95 RMSE= 48.641 R2= 0.000481 | MAE=1.055 MASE=1.63225 RMSE=1.2775 RE=0.0771 | MAE=4.03624 MASE= 25.24 RMSE=5.024 R2=0.16178 | MAE=0.9096 MASE=1.342 RMSE= 1.158 R2= 0.0436 | X |