Figure 1: System Architecture

Diagram

Description automatically generated

Figure 2: Flow Chart for the proposed model

Diagram

Description automatically generated

Figure 3: Daily vaccination measure using LR

Chart

Description automatically generated

Figure 4: Daily vaccination measure using polynomial regression(degree= 2)

Chart, line chart

Description automatically generated

Figure 5: Daily vaccination measure using polynomial regression(degree= 3)

Chart, line chart

Description automatically generated

Figure 6: Daily vaccination measure using polynomial regression(degree= 4)

Chart

Description automatically generated

Figure 7: Daily vaccination measure using polynomial regression

Chart, line chart

Description automatically generated

Figure 8: Daily vaccination measure using multi linear regression

Chart

Description automatically generated

Table 1: Evaluation Parameters for all the regression models

|  |  |  |  |
| --- | --- | --- | --- |
| Model | R2 | MAE | Accuracy(rounded) |
| Linear regression model | 0.895009 | 20437.869 | 97.759 |
| Polynomial Regression | 0.999889 | 850.903 | 99.0038 |
| Multi linear regression | 1.0 | 2.3290327887411895e-07 | 100.0 |