**1.Support Vector Machine :**

| **S.NO** | **Hyper Parameter** | **Linear**  **R2 value** | **Rbf**  **R2 value** | **Poly**  **R2 value** | **Sigmoid**  **R2 value** |
| --- | --- | --- | --- | --- | --- |
| **1** | **C=10** | **-0.03964** | **-0.05680** | **-0.0536** | **-0.05471** |
| **2** | **C=100** | **0.1064** | **-0.05072** | **-0.0198** | **-0.0304** |
| **3** | **C=500** | **0.592897** | **-0.0243** | **0.11468** | **0.07057** |
| **4** | **C=1000** | **0.7802** | **0.0067** | **0.26616** | **0.18506** |
| **5** | **C=1500** | **0.85685** | **0.03776** | **0.38751** | **0.29490** |
| **6** | **C=2000** | **0.87677** | **0.06751** | **0.481002** | **0.39706** |
| **7** | **C=3000** | **0.895674** | **0.06751** | **0.637006** | **0.591363** |

**SVM - Regression ,acceptable R2 value=0.895674**

**Used Parameters :(Kernel: Linear , C=3000)**