| **Model Name** | **Precision** | | **Recall** | | **Precision** | | **F1 Score** | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Logistic Regression (Baseline) (accuracy: 0.37)** |  | |  | |  | |  | |
| *0* | 0.37 | | 0.98 | | 0.54 | | 4489 | |
| *1* | 0.30 | | 0.02 | | 0.04 | | 2566 | |
| *2* | 0.35 | | 0.01 | | 0.02 | | 3867 | |
| *3* | 0.00 | | 0 | | 0 | | 1299 | |
| *Average* | 0.255 | | 0.2525 | | 0.15 | | 3055.25 | |
| **Stochastic Gradient Descent Classifier(accuracy: 0.87)** | |  | |  | |  | |  | |
| *0* | 0.75 | | 0.95 | | 0.84 | | 4489 | |
| *1* | 0.91 | | 0.72 | | 0.8 | | 2566 | |
| *2* | 0.99 | | 0.83 | | 0.9 | | 3867 | |
| *3* | 1.00 | | 1.00 | | 1.00 | | 1299 | |
| *Average* | 0.9125 | | 0.875 | | 0.885 | | 3055.25 | |
| **Support Vector Machines (accuracy: 0.92)** |  | |  | |  | |  | |
| *0* | 0.86 | | 0.92 | | 0.89 | | 4489 | |
| *1* | 0.90 | | 0.80 | | 0.85 | | 2566 | |
| *2* | 0.96 | | 0.97 | | 0.96 | | 3867 | |
| *3* | 1.00 | | 1.00 | | 1.00 | | 1299 | |
| *Average* | 0.93 | | 0.9225 | | 0.925 | | 3055.25 | |
| **Random Forest**  **(accuracy: 1.00)** |  | |  | |  | |  | |
| *0* | 1.00 | | 1.00 | | 1.00 | | 4489 | |
| *1* | 1.00 | | 1.00 | | 1.00 | | 2566 | |
| *2* | 1.00 | | 1.00 | | 1.00 | | 3867 | |
| *3* | 1.00 | | 1.00 | | 1.00 | | 1299 | |
| *Average* | 1.00 | | 1.00 | | 1.00 | | 3055.25 | |
| **Logistic Regression (accuracy: 0.69)** |  | |  | |  | |  | |
| *0* | 0.65 | | 0.74 | | 0.69 | | 4489 | |
| *1* | 0.64 | | 0.61 | | 0.63 | | 2566 | |
| *2* | 0.67 | | 0.58 | | 0.62 | | 3867 | |
| *3* | 0.99 | | 0.98 | | 0.98 | | 1299 | |
| *Average* | 0.7375 | | 0.7275 | | 0.73 | | 3055.25 | |
| **KNN**  **(accuracy: 0.23)** |  | |  | |  | |  | |
| *0* | 0.22 | | 0.19 | | 0.30 | | 4489 | |
| *1* | 0.45 | | 0.77 | | 0.56 | | 2566 | |
| *2* | 0.00 | | 0.00 | | 0.00 | | 3867 | |
| *3* | 0.00 | | 0.00 | | 0.00 | | 1299 | |
| *Average* | 0.1675 | | 0.24 | | 0.215 | | 3055.25 | |

| **Model Name** | **Precision** | | **Recall** | | **Precision** | | **F1 Score** | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Logistic Regression (Baseline) (accuracy: 0.37)** |  | |  | |  | |  | |
| *Average* | 0.255 | | 0.2525 | | 0.15 | | 3055.25 | |
| **Stochastic Gradient Descent Classifier(accuracy: 0.87)** | |  | |  | |  | |  | |
| *Average* | 0.9125 | | 0.875 | | 0.885 | | 3055.25 | |
| **Support Vector Machines (accuracy: 0.92)** |  | |  | |  | |  | |
| *Average* | 0.93 | | 0.9225 | | 0.925 | | 3055.25 | |
| **Random Forest**  **(accuracy: 1.00)** |  | |  | |  | |  | |
| *Average* | 1.00 | | 1.00 | | 1.00 | | 3055.25 | |
| **Logistic Regression (accuracy: 0.69)** |  | |  | |  | |  | |
| *Average* | 0.7375 | | 0.7275 | | 0.73 | | 3055.25 | |
| **KNN**  **(accuracy: 0.23)** |  | |  | |  | |  | |
| *Average* | 0.1675 | | 0.24 | | 0.215 | | 3055.25 | |

| **k-NN** | **0.1675** | **0.24** | **0.215** | **0.215** |
| --- | --- | --- | --- | --- |