SVM

precision recall f1-score support

0 0.96 0.99 0.97 3640

1 0.97 0.98 0.98 4126

2 0.95 0.95 0.95 3680

3 0.96 0.93 0.94 3833

4 0.95 0.96 0.96 3587

5 0.94 0.95 0.95 3343

6 0.97 0.98 0.97 3645

7 0.97 0.95 0.96 3877

8 0.96 0.93 0.94 3579

9 0.95 0.93 0.94 3690

accuracy 0.96 37000

macro avg 0.96 0.96 0.96 37000

weighted avg 0.96 0.96 0.96 37000

LR

precision recall f1-score support

0 0.92 0.96 0.94 3640

1 0.95 0.97 0.96 4126

2 0.89 0.88 0.88 3680

3 0.88 0.86 0.87 3833

4 0.91 0.90 0.90 3587

5 0.84 0.81 0.82 3343

6 0.92 0.95 0.93 3645

7 0.92 0.91 0.91 3877

8 0.85 0.82 0.84 3579

9 0.85 0.88 0.86 3690

accuracy 0.89 37000

macro avg 0.89 0.89 0.89 37000

weighted avg 0.89 0.89 0.89 37000

Concentration rate

precision recall f1-score support

0 0.45 0.74 0.56 827

1 0.41 0.79 0.54 937

2 0.21 0.12 0.15 835

3 0.21 0.31 0.25 870

4 0.20 0.07 0.10 814

5 0.00 0.00 0.00 759

6 0.14 0.15 0.14 827

7 0.17 0.28 0.21 880

8 0.00 0.00 0.00 813

9 0.19 0.20 0.19 838

accuracy 0.27 8400

macro avg 0.20 0.26 0.21 8400

weighted avg 0.20 0.27 0.22 8400

Ink

precision recall f1-score support

0 0.26 0.58 0.36 827

1 0.44 0.81 0.57 937

2 0.17 0.10 0.12 835

3 0.12 0.23 0.15 870

4 0.00 0.00 0.00 814

5 0.00 0.00 0.00 759

6 0.00 0.00 0.00 827

7 0.15 0.39 0.21 880

8 0.00 0.00 0.00 813

9 0.13 0.05 0.07 838

accuracy 0.23 8400

macro avg 0.13 0.22 0.15 8400

weighted avg 0.13 0.23 0.16 8400

Combined

precision recall f1-score support

0 0.50 0.73 0.59 827

1 0.54 0.80 0.64 937

2 0.22 0.14 0.17 835

3 0.20 0.17 0.18 870

4 0.29 0.33 0.31 814

5 0.18 0.04 0.07 759

6 0.18 0.12 0.14 827

7 0.28 0.47 0.35 880

8 0.30 0.32 0.31 813

9 0.21 0.13 0.16 838

accuracy 0.33 8400

macro avg 0.29 0.33 0.29 8400

weighted avg 0.29 0.33 0.30 8400