

Technology Review

22FEB22 (Donda2 drop)

Current Data Issue

Exporting an image array into excel is giving us issues.

Is there a character limit for each excel cell?

6x6 matrix is the only thing we are getting in our arrays.

Images
[[8. 8. 9. ... 4. 4. 4.]
[9. 8. 9. ... 4. 4. 4.]
[9. 9. 9. ... 5. 5. 4.]
...
[2. 2. 2. ... 6. 7. 7.]
[2. 2. 2. ... 6. 7. 7.]
[2. 2. 2. ... 6. 7. 7.]

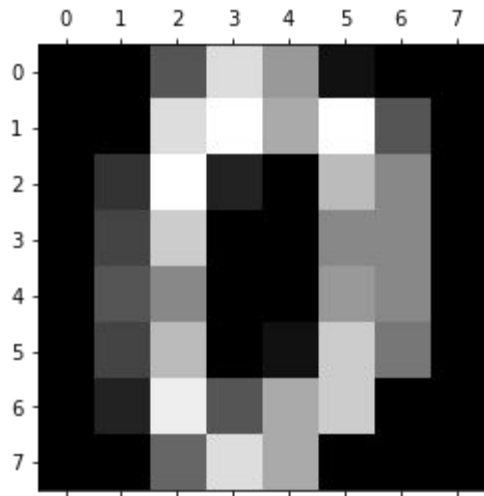
0	[[8. 8. 9. ... 4. 4. 4.]\n [9. 8. 9. ... 4. 4....	30
1	[[8. 8. 8. ... 0. 0. 0.]\n [8. 8. 8. ... 0. 0....	30
2	[[4. 4. 4. ... 11. 9. 9.]\n [5. 5. 5. ...	30
3	[[10. 10. 10. ... 5. 5. 5.]\n [9. 9. 9. ...	100

Practice Data Set

`load_digits`

8x8 greyscale image of handwritten digits ~180 sample of each digit

50% as the training set

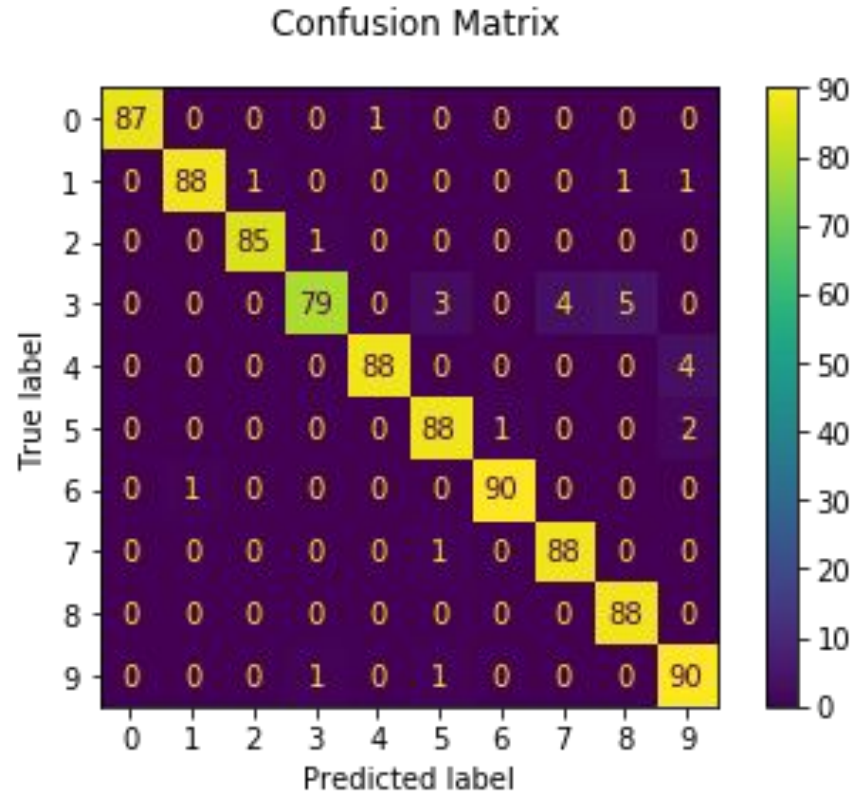


Supervised

Confusion matrix for the CIFAR-10 dataset. The x-axis is 'Predicted label' and the y-axis is 'True label', both ranging from -2 to 11. A color bar on the right indicates the count of samples, ranging from 0 (dark purple) to 40 (yellow). A red diagonal line represents correct classifications. The matrix shows high accuracy, with the highest counts (up to 40) along the diagonal.

SVM Support Vector Machines

Supervised classification model



KNN Classification

Supervised Learning

