**Maman 12 report**

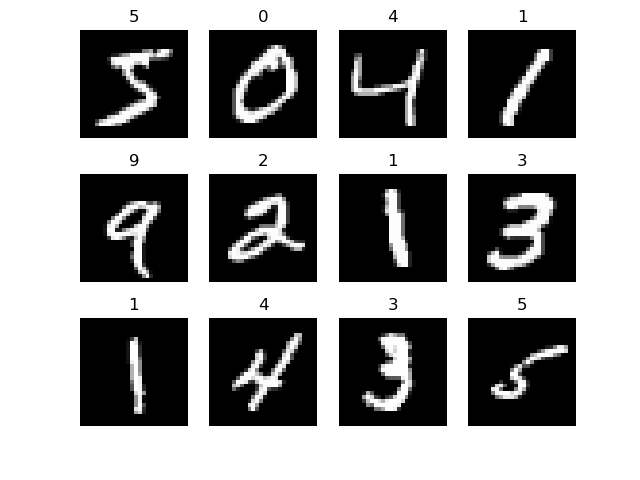
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Loader.DataSet loads the database from pkl, and shows the required visualizations.

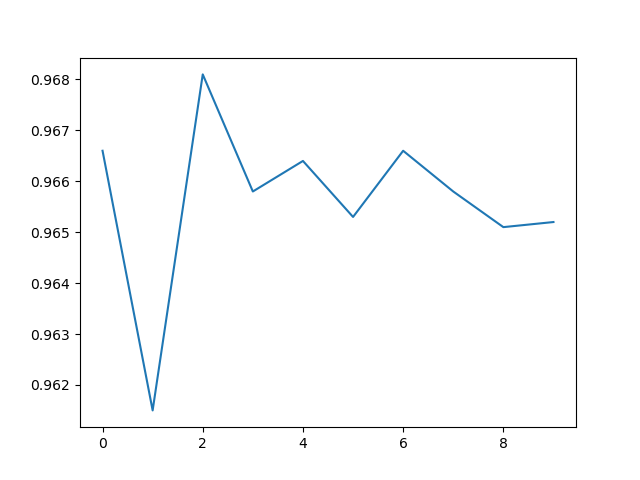
Counting occurrences of every digit (in the y vectors) in all train/validation/test sets gives the following histogram:

{0: 6903, 1: 7877, 2: 6990, 3: 7141, 4: 6824, 5: 6313, 6: 6876, 7: 7293, 8: 6825, 9: 6958}

Showing 

Question 1 – KNN:

Showing the results for k=1..10:



We can see the accuracy for k=3 is 0.968. [the graph starts from 0, but k from 1]

In case of a tie in “votes”, the lower digit is selected.