

## Module 2: Introduction to Machine Learning Assignment

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### Problem Statement:

You work in XYZ Bank as a Machine Learning Engineer. The bank officials want you to build a system that can recognize hand written digits.

### Tasks to be performed:

1. Using the MNIST Handwritten Digits dataset you have to build a model that can classify an image into a number from 0 to 9.
  2. You have to load the digits
  3. Analyze the shape of the data
  4. Print some images to screen with their labels
  5. Train a model
  6. Make classifications on the model
  7. Test the accuracy by visualizing a confusion matrix
  8. Print and analyze some of the misclassified data
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