

# A Novel Method for Handwritten Digit Recognition System

Importing the required libraries

Project Id: PNT2022TMID15811

```
In [1]: import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
from tensorflow.keras.layers import Dense, Conv2D, MaxPool2D, Flatten
from tensorflow.keras.models import Sequential
from tensorflow.keras.callbacks import EarlyStopping
from tensorflow.keras.datasets import mnist
from tensorflow.keras.utils import to_categorical
from sklearn.metrics import classification_report, confusion_matrix
```