# **Handwritten Digit Prediction Using CNN**

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This paper uses state-of-the-art deep neural architectures to benchmark major Indian scripts such as Devanagri and Bangla for the tasks of word spotting and handwritten recognition. It employs Word Spotting via a CNN-RNN hybrid network. This paper proposes a method for recognising handwritten Devanagri characters based on individual character classification using ANN.

The hand printed forms and digits database NMIST dataset is used. Dataset Training Model accuracy is measured using training and testing. Data is used for training 80% of the time and testing 20% of the time.

Training accuracy: 98.85%

Training loss: 4.737%

Testing accuracy: 98.607%

Testing loss: 6.844%

The software used in this project is completely open source.