

**SEMESTER PROJECT - ABSTRACT FORM**

**Batch: 2075 Semester: VII Year: 2079**

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| **S.No.** | **TU Exam Roll No** | **Student Name** |
| **1.** | **20786/075** | **Aashish Pokharel** |
| **2.** | **20811/075** | **Milan Chaudhary** |
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**Project Title: Handwritten Nepali Digit Classification**

**Front-end Tool:**  HTML/CSS, JavaScript, Jupyter Notebook Frontend

**Back-end Tool:** Django, Jupyter kernel

**ABSTRACT**

Handwriting recognition has been the main subject of research for almost the last forty years. It has seen the tremendous progress due to the availability of the resources and development in recent years. Nepali, although being a low resource language also has seen a great progress in the handwriting recognition and classification.

We propose a project titled “Nepali Digit Classification” that will use the Deep Learning methods. We plan to create a simple but effective model as an output using the concepts of Artificial Neural Networks taking Batch Normalization as a primary technique for increasing the efficiency of the system. The Batch Normalization will solve the problem of using regularization techniques such as dropout and need of weight initialization.

**Student Signature:**

**Aashish Pokharel:**

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**Shreedhar Ghimire:**