

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**BELGAUM**



A Project Report on

**“A GENERALIZED RECOGNITION SYSTEM FOR  
HANDWRITTEN CHARACTER RECOGNITION”**

Submitted in partial fulfillment for the award of degree of  
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# ABSTRACT

Handwritten Character Recognition (HCR) has been an active area of research and due to its diverse applicable environment, it continues to be a challenging research topic. In this project, we focus specially on offline recognition of Handwritten English Alphabets with feature extraction using multilayer Feed Forward neural network. Each character data set contains 26 alphabets. The neural network is trained using the scanned samples. The trained network is used for classification and recognition. Each character is resized to 30x20 pixels and then is trained. These 600 resized pixels are taken as features for training the neural network. The results show that the proposed system gives good recognition rates compared to that of without feature extraction based schemes for handwritten character recognition.