

## TAMIL AND HINDI SCRIPT RECOGNITION SYSTEM USING HIERARCHICAL MULTILAYERED NEURAL NETWORK

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### ABSTRACT

In this proposed work, a neural network for Tamil and Hindi character recognition is been proposed by implementing algorithms over the neural network. The neural network can effectively recognize various characters and digits with good recognition and accuracy. Character recognition has become one of the vital in mobile e-learning, teaching and much other interesting application industry. The application is to apply Neural Network for recognizing digits and characters. It consists of an interconnected group of artificial neurons and processes information using a connectionist approach to computation. In most cases an ANN is an adaptive system that changes its structure based on external or internal information that flows through the network during the learning phase. In practical neural networks are non-linear statistical data modeling tools. They can be used to model complex relationships between outputs and inputs or to find various patterns in data given for detection.

**KEYWORDS:** Neural Network, Feed Forward & Back Propagation Algorithm, Digital Recognition, Character Recognition