



**KUVEMPU UNIVERSITY**  
**University B. D. T. College of Engineering**  
**Department of Computer Science and Engineering**

**CERTIFICATE**

This is to certify that Mr. S. Basavaraj Patil has worked under my supervision for his Ph.D. thesis entitled "Neural network based techniques for Document Image Processing: A New Approach". I also certify that the work is original and has not been submitted to any other university wholly or in part for any other degree.

  
Dr. N. V. SUBBAREDDY

Research Guide

Head,

Department of Computer Science and Engineering,

Manipal Institute of Technology,

A Constituent Institution of MAHE,

(Deemed University),

Manipal-576 119,

Karnataka, India.

Head 21.01.2003

DEPARTMENT OF COMPUTER ENGINEERING

MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL-576 119