

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"JNANA SANGAMA" BELGAUM – 590 014



A PROJECT REPORT ON

**“ONLINE KANNADA HANDWRITTEN CHARACTER
RECOGNITION FOR ANDROID MOBILE DEVICES”**

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ABSTRACT

Since the inception of computers we are witnessing a great deal of research activities in the field of computer human interface. The input devices such as keyboard and mouse have limitations in comparison with input through natural handwriting. The natural handwriting is a very easy way of exchanging information between computers and human beings. A new computing scheme, pen computing, which includes mobile devices and applications in which electronic pen along with pen sensitive writing pad is used as the main input tool has been emerging. To implement pen-computing applications, online handwriting recognition system should be used. Online handwriting recognition engines have been developed for various character sets. Despite that, very less attempt has been made to build an online handwriting recognition engine for Indian languages. Pen-based inputting incorporated with online handwriting recognition feature allows people to write texts and enter input data in their own natural way of handwriting on an electronic pad.

This project work is an attempt to develop an online handwriting isolated character recognition engine for one of the most widely used Indian language called Kannada. The pen-based devices are evidently unusual in Kannada and one reason for that is the absence of localized applications. Bringing an online handwriting recognition engine for Kannada character set to such devices would play an important role in making these devices available and usable for the Indian society.