VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM

B.L.D.E.A's

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BIJAPUR – 586 103

DEPARTMENT OF COMPUTER SCIENCE & ENGG (CSE)

A PROJECT REPORT ON

"RECOGNITION OF A JEWELRY ITEM FROM AN IMAGE"

Submitted in the fulfillment of the requirement for the completion of the 8th-semester of B.E.(CSE)

Under the Guidance of

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ABSTRACT

In this modern age of image processing we come across many new applications. Image processing is a vast area of study. In this project work a method is designed to recognize the different jewelry items using ANN. In this project work totally we have taken eight type of jewelleries, in which ten different item of each type of Jewelry. First the image acquisition process is done in which images of jewelry item is acquired maintaining some constraints using Nikon D-40 camera. The feature extraction process is carried out using Color features and GLCM texture features. For each jewelry item we are calculating 18 Color features and 24 GLCM features. Then using ANN classifier we are creating a feed forward back propagation network, and doing the training process. The testing process consists of the feature extraction of newly coming image and comparing these with existing knowledge base. This gives the result whether the given image is jewelry or not and which type of jewelry item it is.