

# REVERSE IMAGE SEARCH FOR THE FASHION INDUSTRY USING CNN

A PROJECT REPORT

*Submitted by*

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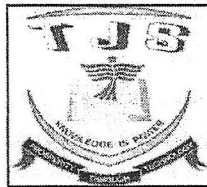
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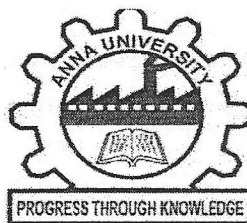
*in partial fulfillment for the award of the degree of*

**BACHELOR OF ENGINEERING**

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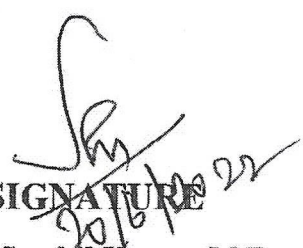
**BONAFIDE CERTIFICATE**

Certified that this project report “Reverse Image Search For The Fashion Industry Using CNN” is the bonafide work of the following students.

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## ABSTRACT

This paper deals with the design and implementation of "Reverse Image Search for the Fashion Industry Using CNN" Its applications are extensive and ever yet further growing as our understanding of it increases. Reverse image search is another interesting upcoming topic, of which its applications make our lives significantly easier in a number of business sectors and even in our day to day lives. Its implementation is when instead of text, pictures are used as search input, and similar images are returned as the result to help users of a system easier find what they are looking for. In this paper we trained our own Convolutional Neural Network (CNN), and designed an image search engine for use in the fashion industry. In our work we designed and trained a CNN, for the sake of obtaining the vector features of the images, using a custom dataset. The general architecture of the model we used is represented and we elaborate further on the configurations we used specific to our network as well. In our work, we utilized the ability of CNNs to classify objects i.e. systems which upon being given an image are able to deduce to which class an item in the picture belongs to, e.g. cat, dog, airplane etc., and extended upon it for the purposes of visual image search and retrieval. This is because during training, a CNN learns how to break down an image and automatically learns which features are important to extract. All CNNs can be divided into a number of important building blocks. Here below they are listed and explained in more detail along with the configurations that we used for our network.



  
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