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**K. K. Wagh Institute of Engineering Education & Research**

**Department of Computer Engineering**

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**BE Project**

**PID: 37**

**FINE-GRAINED VISUAL CATEGORIZATION OF DOG BREEDS**

**Abstract**

The intent of the image classification process is to categorize all pixels in a digital image into one of several classes. The Convolutional Neural Network is a subtype of the Neural Networks that is mainly used for applications in image recognition. It takes an input image, assign importance to various objects in the image, and be able to differentiate one from the other. One such area is the problem of identifying dog breeds . Dogs may require special care, such as frequent grooming, a specific diet, or a more active lifestyle. Therefore, it is important for dog owners to know their dogs' breeds. The purpose of the project is to develop a neural network model capable of classifying dog breeds. The main subject of this project is the usage of neural networks to provide non-technical users with the means to automatically identify breeds of dogs from their pictures.

Keywords:

Dog Breeds, Neural Networks, Image Processing, Machine Learning, Classification, Identification

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