

Cat Breed Classification with Convolutional Neural Network(CNN)

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Abstract

Cats are pets that everyone can have. But sometimes not all cat owners know their cat breeds. Caring for a cat can not be arbitrary, but it requires special care. The treatment of cat must be specific based on each breed in cats for ensure the cat's health adjusted to the cat breeds has different characteristics so that different care is needed. So we need a program that can recognize the breed of a cat. In this research, entitled "Breed Classification in Cats using Convolutional Neural Network (CNN) Algorithm" training and testing has been carried out using a dataset originating from Oxford-IIIT totaling 2393 images with 12 classes. The models used are VGG16, InceptionV3, ResNet50 and Xception. The test accuracy results are 60.85%, 84.94%, 71.39%, dan 93.75%.

Keywords: CNN, classification, computer vision
