

Dog breed identification using transfer learning

DATE	28-02-2026
TEAM ID	LTVIP2026TMIDS90703
PROJECT NAME	Dog breed identification using transfer learning
MAXIMUM MARKS	4 MARKS

6.2 - Data Collection

In this milestone First, we will collect images of Dog Breeds then organized into subdirectories based on their respective names as shown in the project structure. Create folders of types of Dog Breeds that need to be recognized. In this project, we have collected images of 20 types of Images like affenpinscher, beagle, appenzeller, basset, bluetick, boxer, cairn, doberman, german_shepherd, golden_retriever, kelpie, komondor, leonberg, mexican_hairless, pug, redbone, shih-tzu, toy_poodle, vizsla, whippet they are saved in the respective sub directories with their respective names.

Download the Dataset- <https://www.kaggle.com/competitions/dog-breed-identification/data?select=train>

The screenshot shows the Kaggle competition page for 'Dog Breed Identification'. The left sidebar has links for Create, Home, Competitions, Datasets, Models, Benchmarks, Game Arena, Code, Discussions, Learn, and More. The main content area shows the competition title 'Dog Breed Identification' with a sub-instruction 'Determine the breed of a dog in an image'. Below it are tabs for Overview, Data, Code, Models, Discussion, Leaderboard, and Rules. Under 'Dataset Description', it says: 'You are provided with a training set and a test set of images of dogs. Each image has a filename that is its unique id. The dataset comprises 120 breeds of dogs. The goal of the competition is to create a classifier capable of determining a dog's breed from a photo. The list of breeds is as follows:' followed by a list of breeds: affenpinscher, afghan_hound, african_hunting_dog, airedale, american_staffordshire_terrier. To the right, there are sections for Files (20581 files), Size (750.43 MB), Type (jpg, csv), and License (Attribution 4.0 International (CC ...)).

In Image Processing, we will be improving the image data that suppresses unwilling distortions or enhances some image features important for further processing, although perform some geometric transformations of images like rotation, scaling, translation, etc.