PROBLEM STATEMENT - TO PREDICT/IDENTIFY THE breed OF THE DOGS BASED ON THEIR IMAGE

OVERVIEW

- Image recognition and classification have successfully applied in various domains, such as face recognition and some understanding of enormous medical pictures.
- Accurate human face identification is considerably used for authentication and security purposes in many applications.
- Dog breed identification is a fine-grained image classification problem, which is challenging for both machines and humans.
- Since dogs and cats share the same physique, they have comparable size and shape, and it is quite simple to confuse one for the other.
- Because of their similarity, it is difficult for computers to distinguish between the two species, and it is difficult even for humans at times.
- We difficulty of breed patterns fluctuates, it also takes time to hand-analyze.
- Dogs are a popular pet that people have kept for companionship and have been bred for many breed lines and dogs.
- In some situations, a dog's owner is absent or disappoints the owner problem in which a search for a lost dog's ownership.
- Dog breed identification is a difficult problem because some breeds have very similar appearances and behaviors.
- Breed image has a diverse look, so it is unique.
- Dogs have a variety of shapes and sizes.
- Our objective is to develop a machine learning model that is capable to work in the different breeds as part of the main study.
- The goal of this project is to develop a machine learning model that can accurately identify the breed of a dog in an image.

In [ ]: !wget --header="Host: storage.googleapis.com" --header="User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) Gecko/20100101 Firefox/94.0" --header="Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8" --header="Accept-Language: en-US,en;q=0.5" --header="Referer: https://www.kaggle.com/" --header="Cookie: _ga=GA1.2.1893833356.1635833766; _gid=GA1.2.1986179051.1636242465; _gat_gtag=1; _gat=1; AWSALB=/Ne+Ln+Ln+Ln