Open programme challenge plan

Dogs breed identification

The problem

I decided to do the project because I cannot identify dogs and I am not alone in this. Many people see dogs which they do not know the breed of, but wish they did.

The solution:

The solution to the problem will be to create an app that recognizes the "dog" according to its breed.

The goal

The goal of the project is to build a model that can identify the breed of a dog when given an image.

Methodology

I want to implement a deep learning network to classify dog breeds from images. The main goal is to evaluate different CNN custom architectures to solve the given problem. I will present how I used transfer learning to train a pre-trained CNN to achieve this objective. The data set has 8,351 total images with 133 different breeds.

Steps:

1. Find the data (pictures):

   The data that is going to be used in this project is taken from:

   https://github.com/besson/ds-capstone-project/tree/master/doggo.

2. Explore my data and train the models using neural network

3. Create a data storage solution - Git, using DVC