GUIDLINES AND INSTRUCTIONS

For making our product predicting more accurately, we had to follow some guidelines while giving pictures as an input to the model for the prediction.

These guidelines are:

- Background of image should be light
- angle of capturing should be focusing on frontal face
- background of image should not contain many context/objects
- image should contain only one dog
- image must not be blurred
- dog image should be captured properly (not a cropped face)

By focusing on above guideline, we will get accurate prediction from our model for sure.

Let's discuss these points in much more detail as why they are so important to be followed, firstly a light background should be provided to the model because if image have dark background the impact of presence of dog in the image will become less and it will sharpen the edges which will lead to misguiding the model. Another major instruction which we had to followed is to focus more on frontal face of the dog and camera should be focusing the face, let's see an example to understand better.

We can clearly see the difference in the above two images and there is obvious difference in the prediction as well, the left one is the full image of the dog and picture was not focusing the face and camera eye was focusing from above angle of the dog rather than to focus from the from which leads to wrong prediction, the right one is the same picture but cropped for analysis, and model was predicting the correct breed with high probability.

Similarly we have to properly follow the other points which are mentioned above as well because if the images of the dog is cropped as half of the dog is present or half face is present in the picture or picture is blur and having some noises at the background these things will have a negative impact on the accuracy of the model.

So, the conclusion is that we have to follow the guidelines properly to achieve good results in the form of accurate predictions.