**Description of dataset :-**

We leveraged the CelebA dataset, a well-known dataset commonly used for face generation and deepfake creation. The CelebA dataset comprises approximately 200,000 images of celebrity faces, each accompanied by annotations such as identity, gender, and age.

The CelebA dataset, which stands for "Celebrities Attributes," is a highly utilized dataset within the fields of computer vision and machine learning. It comprises an extensive collection of images featuring celebrity faces along with associated attributes like identity, gender and age.

Key characteristics of the CelebA dataset include:

1) Abundant Images: The dataset contains over 200000 images. These images encompass a diverse range of poses, expressions, and lighting conditions.

2) Attribute Annotations: Each image is furnished with a set of attribute labels, describing various facial features such as the presence of glasses, facial hair, age, gender, and more. Each image is associated with 40 binary attribute labels like wearing glasses, bald, mustache, beard, wearing hat, wearing earrings, smiling and so on.

3) Identity Information: The dataset also provides identity labels, offering insights into the specific celebrities featured in the images. This information is invaluable for tasks such as face recognition.

4) Data Segmentation: Typically, CelebA is segmented into training, validation, and test sets. This division facilitates the training and assessment of machine learning models.

5) Large-Scale Nature: CelebA is regarded as a large-scale dataset, rendering it well-suited for training deep learning models.

It is a popular choice for the development of generative models like Generative Adversarial Networks (GANs) used for generating realistic human faces.