1. **Title:**

Gender and Age Detection: predict if a person is a male or female and also their age

1. **Introduction:**

Gender and age detection is a task that involves predicting the gender (male/female) and age of a person based on their facial features. In this project, we aim to develop a deep learning model that can accurately predict the gender and age of individuals from images.

**Age prediction** – The prediction will be in the form of categories where categories are a few age intervals like  0-6,18-25, etc.

**Gender prediction** – The prediction is a classifier based where categories are Male and Female.

1. **Import Libraries**

[Opencv](https://www.geeksforgeeks.org/opencv-overview/): To Read and process the image which includes resizing, making a face blob, forming a bounding box, etc.

[Matplotlib](https://www.geeksforgeeks.org/python-introduction-matplotlib/): To plot the image.

The Gender and Age Detection using Deep Learning project has various applications across different domains:

1. **Applications:**

1. Marketing and Advertising

2. Entertainment and Gaming:

3. Healthcare:

4. Human-Computer Interaction:

5. Social Media and Content Creation

1. **Results:**

Upon training the model, we achieved gender prediction and a mean absolute error of age prediction on the test images. The model demonstrates robustness in predicting gender and age from facial images.

1. **Conclusion:**

In this project, we successfully developed a deep learning model for gender and age detection from facial images. This project contributes to the field of computer vision and has potential applications in various domains such as security, marketing, and entertainment.