

PROJECT OVERVIEW STATEMENT	Project Name: Gender and Age Detection using Computer Vision.	Student Name: Rohith Uppula
Problem/Opportunity: <p>Age and gender are two of the most common identification characteristics of a person(In question) in situations like looking up strangers, etc. The development of an automated system to perform this task will minimize the need for humans to manually scan the digital images to identify the person.</p>		
Goal: <p>Even though this issue can be solved manually for small datasets, dealing with enormous databases will be challenging. We therefore use this chance to develop a machine learning-based computer vision system to identify the age and gender of a subject from a digital photograph.</p>		
SMART Outcomes: <ul style="list-style-type: none"> Labeling anonymous person's age and gender. This will be tested against real-time images taken by subjects themselves to ensure the model performs well in diverse scenarios. It completely depends on time taken to train and test the model for the data we are using. 		
Objectives: <ul style="list-style-type: none"> This project only focuses on detecting the age and gender from a clear image. The scalability of the project depends entirely on the sophistication of the algorithms used and the size of the data. The purpose of objective statements is to clarify the exact boundaries of the goal statement and define them. This project is not applicable to identify the person based on their live presence but a mere picture of their facial representation. This project is not viable with poor pictures having low image exposure, unfocused/vague images etc. The algorithm will label sample images with age and gender. Time frame: Mid November. This project will be measurable in terms of regressive loss/ classification accuracy. In this project, we'll be exploring various machine learning and deep learning models to get accurate results. 		
Success Criteria: <p>The project will be considered successful, if a prominent percentage of test images are labeled correctly (at least 60% accuracy/ minimal age loss).</p>		
Assumptions, Risks, Obstacles: <ol style="list-style-type: none"> Exploring the dataset to get the right one to fit the model. It might be challenging for me to fit the dataset to the model. Using Computer vision is the biggest challenge and I'm hoping I'll be able to achieve an accuracy of at least 60%. 		
Prepared By Rohith Uppula	Date 9/21/2022	Approved By Date