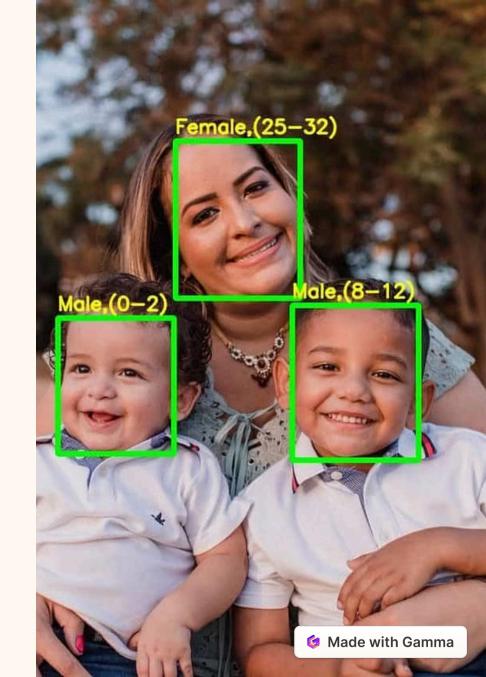
# Introduction to Age and Gender Detection

Age and gender detection is the process of analyzing an image or video to determine the age and gender of the people depicted.

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### Importance of Age and Gender Detection

1 Marketing & Advertising

Targeted advertising based on age and gender demographics.

Security

Access control systems and surveillance for public safety.

3 Personalized Content

Customized user experience in applications and social media platforms.

### Techniques and Algorithms for Age Detection

Facial Landmarks Deep Learning Models

Using key points on the face to estimate age. Computer vision algorithms to analyze facial

features.

### Techniques and Algorithms for Gender Detection

Feature Analysis

Convolutional Neural Networks (CNN)

Identifying facial characteristics associated with gender.

Deep learning models for gender classification.

### Applications of Age and Gender Detection

AI Ag 1 Retail Analytics
Understanding cus
Detection Model

Retail Analytics
Understanding customer demographics and behaviors.

Healthcare

Welcome to our presentation on the Al Age and Gender Detection Model, Discover Age-based diagnoses and personalized care. how this cutting-edge technology has revolutionized various industries.

Entertainment

Recommendation systems based on age and gender preferences.

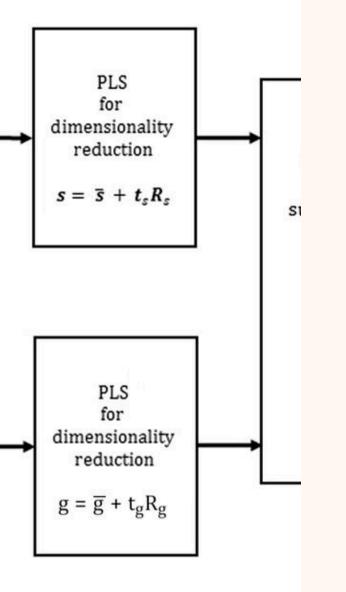
### Existing System and Proposed System

#### **Existing Approch**

- Face detection
- Feature extraction
- model inference

#### Proposed Enhancement

- Haar cascade file of face detection
- Caffe model
- Deep learning classification



### Workflow

3

Data Collection

Image or video input for processing.

Feature Extraction

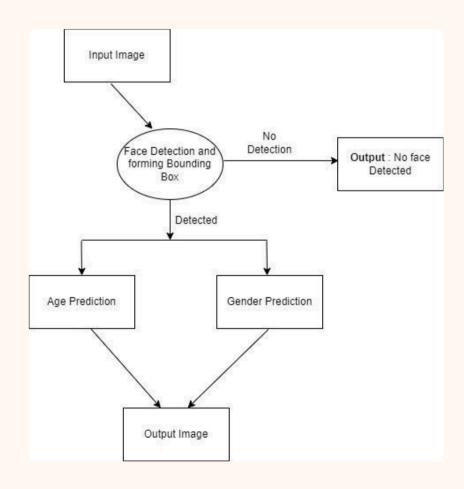
Identifying facial attributes for age and gender analysis.

Classification

Age and gender prediction based on extracted features.

#### Made with Gamma

### Flowchart



## procedure followed

- 1.import libraries(opency and numpy)
- 2.It first detects faces in the input image using the Haar Cascade classifier.
- 3. For each detected face, it extracts the region of interest (ROI), preprocesses it to match the input requirements of the age and gender classification model.
- 4. And then predicts the age and gender.
- 5. Finally, it draws rectangles around the detected faces and labels them with the predicted age and gender.