

## Model Card – Gender Classification

### 1. Dataset Used

Custom dataset containing 10 facial images  
Balanced male and female samples

### 2. Architecture

MobileNetV2  
Final classifier modified for 2 output classes

### 3. Number of Parameters

Approximately 3.5 million parameters

### 4. Training Strategy

Loss Function: CrossEntropyLoss  
Optimizer: Adam  
Epochs: 5  
Batch Size: 32  
Learning Rate: 0.0001  
Data augmentation applied (flip, rotation, color jitter)

### 5. Ethical and Bias Considerations

A limited dataset size may introduce bias

Model performance may vary across age groups and ethnicities

Should not be used for high-stakes decision-making