

# Model Card: Gender Classification

## Dataset(s) Used

Baseline scaffold currently uses a placeholder checkpoint. Replace this with your final training dataset(s) and report exact split sizes before final submission.

## Architecture

Custom lightweight CNN (3 convolution blocks + global average pooling + linear classifier).

Input size: 128x128 RGB. Output classes: 2 (0=Male, 1=Female).

## Number of Parameters

23,714 trainable parameters.

## Training Strategy

Recommended training pipeline: face crop preprocessing, balanced sampling by class, Adam optimizer, cross-entropy loss, early stopping on validation F1, and confidence calibration.

## Ethical and Bias Considerations

Gender appearance classification can encode social bias and should not be used to infer identity, legal sex, or sensitive attributes. Evaluate per subgroup, monitor failure under lighting/pose/occlusion changes, and report limitations clearly.