Binary Classification

# APPA-Real Trained Model

'./models/ResNet50\_fc+layer4\_2025-01-22\_v1.pth'

## UTKFace Test Data

A screenshot of a computer

AI-generated content may be incorrect.

## APPA-Real Test Data

A screenshot of a price tag

AI-generated content may be incorrect.

# UTKFace Trained Model

‘ResNet50\_fc+layer4\_v3.pth’

## UTKFace Test Data

A screenshot of a graph

AI-generated content may be incorrect.

## APPA-Real Test Data



# Comparison of Bias

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a graph

AI-generated content may be incorrect.

A graph of a model

AI-generated content may be incorrect.

A screenshot of a graph

AI-generated content may be incorrect.

Clear bias towards white. APPA-Real trained model has notably poor performance for Asian. Low recall indicates that the model is missing many true positives (>25) for Asians, while the high precision indicates that when the model predicts positive for Asians it is generally correct.

Multiclass Classification

# APPA-Real Trained Model

‘multiclass/ResNet50\_fc+layer4\_2025-02-05\_v1.pth’

## UTKFace Test Data

A screenshot of a graph

AI-generated content may be incorrect.

## APPA-Real Test Data

A screenshot of a computer

AI-generated content may be incorrect.

# UTKFace Trained Model

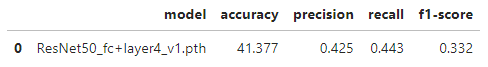
‘multiclass/ ResNet50\_fc+layer4\_v1.pth’

## UTKFace Test Data

A screenshot of a graph

AI-generated content may be incorrect.

## APPA-Real Test Data



# Comparison of Bias

A screenshot of a computer screen

AI-generated content may be incorrect.

A graph of numbers and colors

AI-generated content may be incorrect.

A graph of different colors

AI-generated content may be incorrect.

A screenshot of a graph

AI-generated content may be incorrect.