# Face Recognition with MobileNetV2

- github link

# Dataset

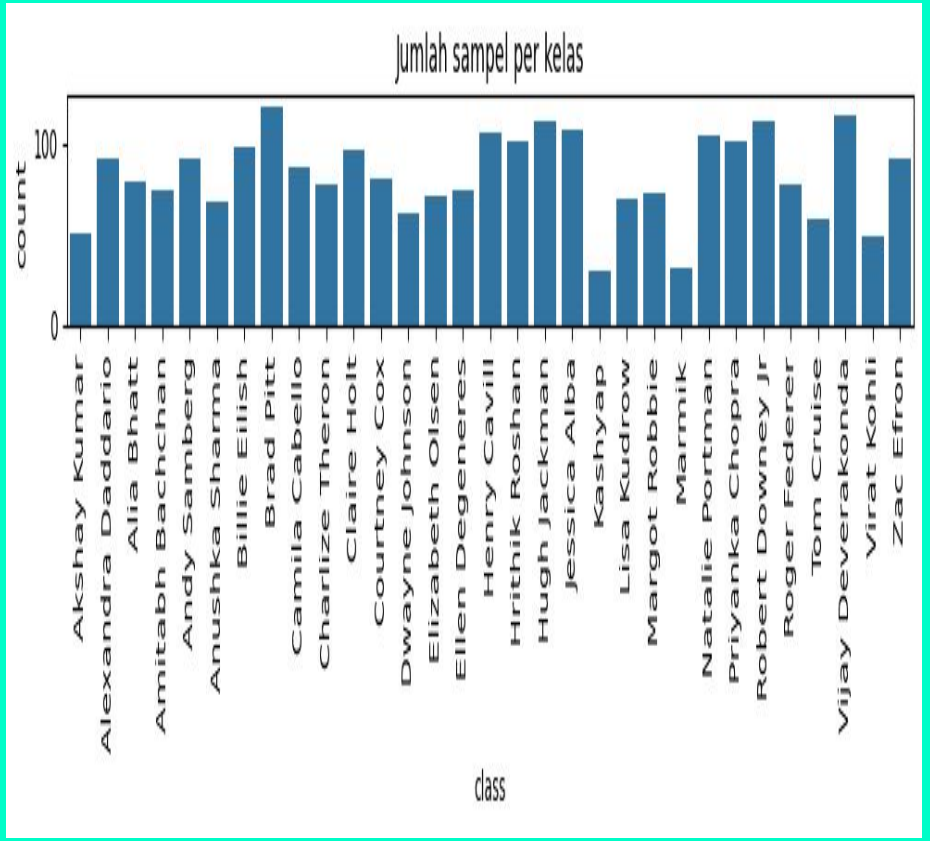
- 30 celebrities
- ±200 gambar per kelas
- Dataset seimbang
- Visualisasi: bar-plot (placeholder)

# Pre-processing

- Resize 128×128
- Normalisasi 1/255
- Augmentasi: rotate, zoom, brightness, flip.

# Arsitektur Model

- MobileNetV2 backbone
- GlobalAveragePooling2D
- Dense 256
- Softmax 31 kelas



# Evaluasi Model

- Test Accuracy: 89%
- PR-AUC: 0.83
- F1 terbaik: 0.78

Grafik PR (placeholder)

# Error Analysis

9 foto salah prediksi - dominan karena pose ekstrim, cahaya kontras, dan blur; solusi: augmentasi lighting & stabilisasi gambar.

# Error Analysis

- Transfer Learning cukup baik
- Ganti backbone: EfficientNet-B0
- Tambah data: variasi lighting & pose ekstrim
- Deploy model: REST API Flask / FastAPI

# Kesimpulan & Next Step

- Transfer Learning cukup baik
- Perbaikan: EfficientNet
- Tambah data
- Deploy model