

Power of machine learning algorithms

AGE ESTIMATION USING DEEP LEARNING MODELS

BIG DATA

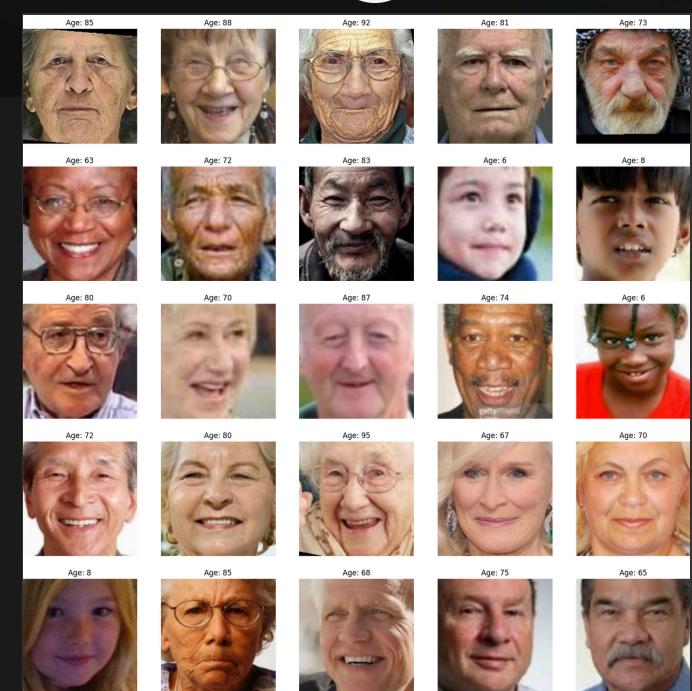
CNNs POWER

29TH MAY, 2024

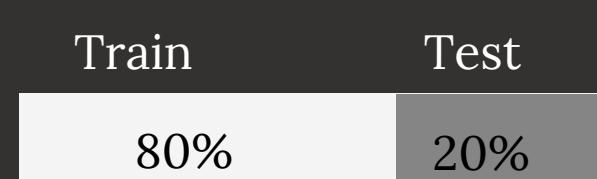
Topic of Interest

- Explore age detection's significance across various domains
- Highlighting CNNs and their relevance in age detection
- Model Training with different CNN models and comparing the transfer learning models
- Results performance metrics and model predictions against actual ages
- Deploying a simple AI product

Loading the dataset

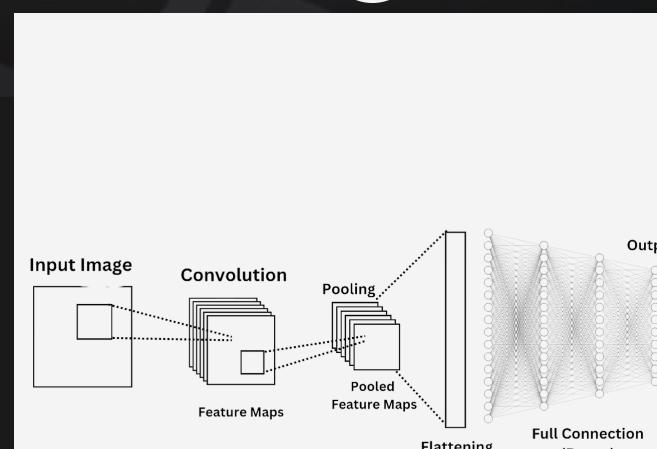


Splitting the dataset



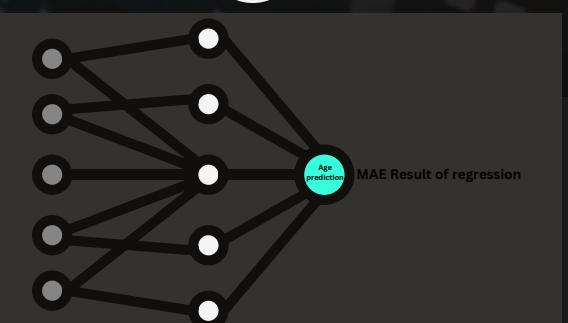
Training samples : 18,966 img
Test samples : 4,742 img

CNN regression task



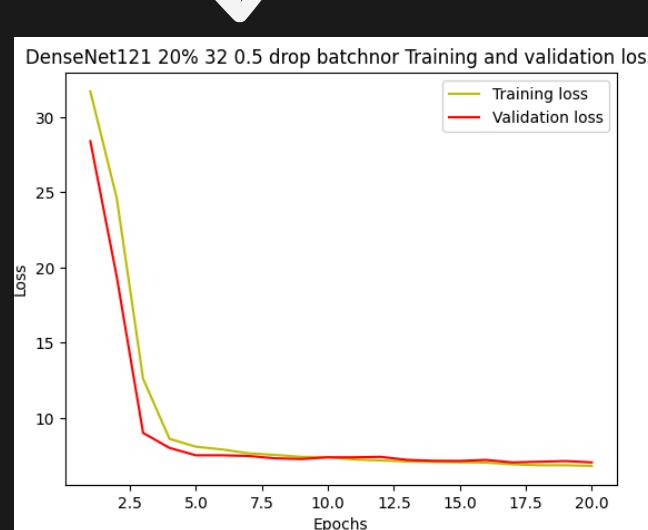
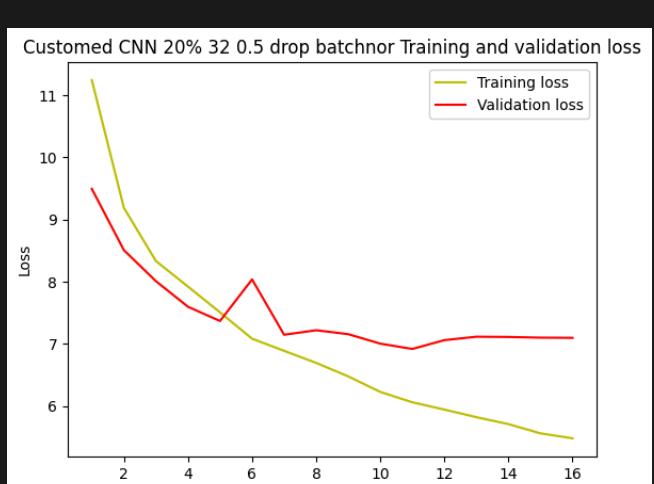
Extracting features by applying convolution layers

Comparing results and techniques preventing overfit

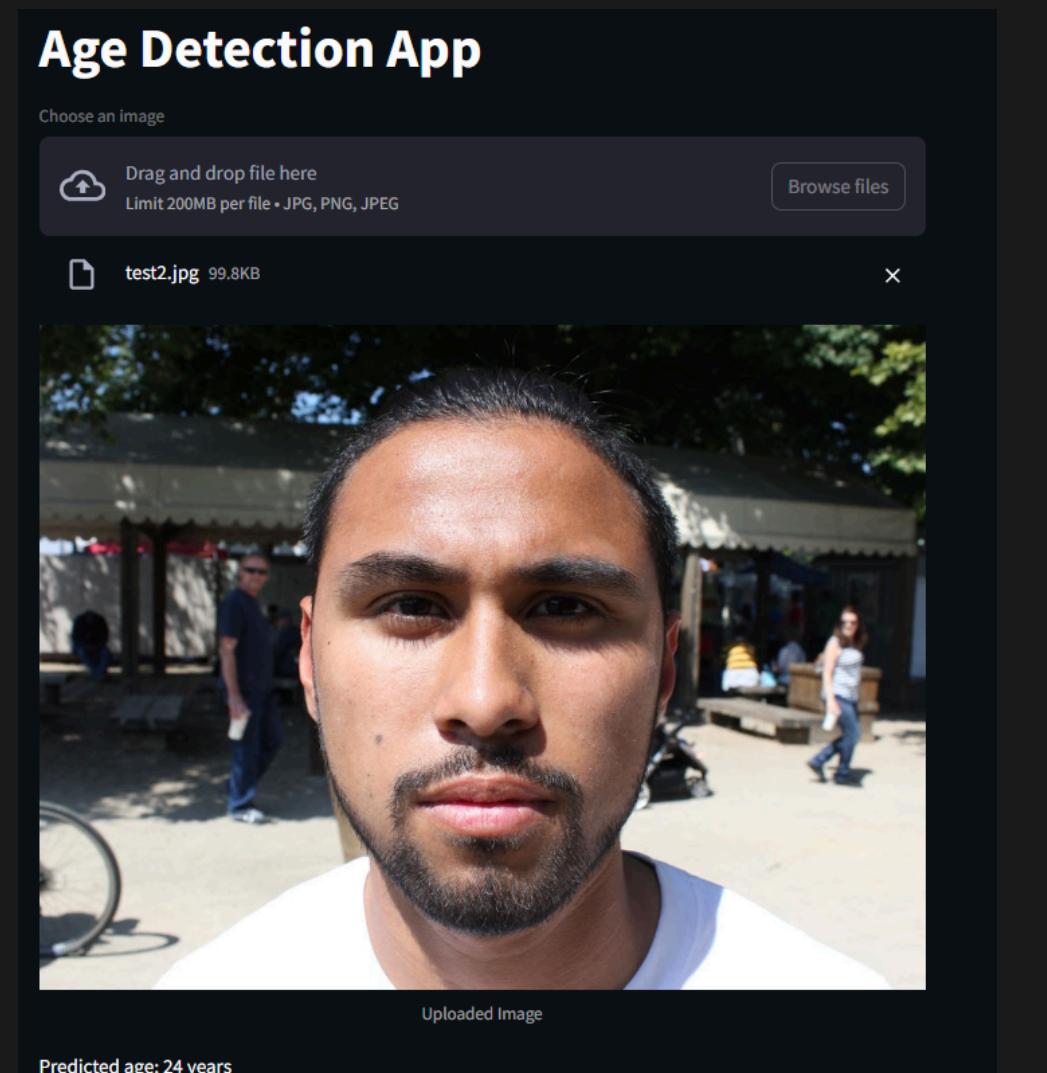


Comparing different MAE of regression results of pre-trained models then taking the best behaved model with the UTKFace to the tuning hyperparameters inorder to improve result and reduce the overfitting

Model improvements



Simple AI Product



CEM KALYONCU , VESILE EVRIM



SALEM SARTAWI 20140004

