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Effective Training of Convolutional Neural Networks for Face-Based Gender and Age Prediction

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Highlights

- Distribution label encoding as an optimal way to represent age in a CNN.
- Role of pretraining in selection of the CNN architecture and the training strategy.
- Advantages of mono-task and multi-task trainings.
- State-of-the-art scores on 3 popular benchmarks: LFW, MORPH-II and FG-NET.
- 1st place in the ChaLearn Apparent Age Estimation Challenge 2016.

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