A Convolution Neural Network for Classification of Indian Faces

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Authors:
Samarth Sarin, Siba Panda

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Abstract

This paper is a modest attempt to compare different Indian faces into three categories that are North Indian, East Indian and South Indian. We have not taken West Indian into consideration as there are no distinct features in those faces. An artificial neural network is proposed for face classification in this paper. Images were collected from online resources and pre-processed before they were feed in the neural network. Experiments were conducted based on extracting features from the faces of Indian People belonging to different regions. The accuracy of face classification was up to 81% and the optimal choice of hyperparameters of the neural network for this task is discussed.

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Index Terms

Computer Science Artificial Intelligence

Keywords

Indian face Classification, North Indian, East Indian, South Indian deep learning, convolution neural network.