**Gender Classification of Fingerprints**

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* We are planning to design a Gender Classification Model which predicts the gender of a person using their fingerprints.
* This model is so important because it clearly reduces the time spent on identifying an individual in gender-specific data sets.
* In this model we will go through a gender classification model which we will train using Deep Learning and Convolution Neural Networks. On Convolution Neural Networks each neuron is presented in two-dimensional form, so this method is suitable for processing with input in the form of images.

Idea implementation:

Basically, we are planning the designing this model in 4 phases:

1. Data Collection:

Here we will convert the images which are from the data set into pixels to extract the requirements from the fingerprints.

1. Preprocessing the data:

Here we will take care about the image size, labeling etc., before entering the training data.

1. Training Data:

In this processing the dataset will be trained using the convolutional neural network methodology.

1. Result Verification and Displaying the output:

Here we will check the model whether it is predicting correctly or not by giving some test data set and then we will display the predicted output for some inputs.