Problem Statement

The lie detection system has 3 components - a camera(stereo) capture on facial features, an audio for capturing voice and a set of IOT devices for capturing body movements.

The questioning proceeds as follows:

1. The interviewer asks a question followed by “OK please answer”
2. The Interviewee answers the question at which point the camera starts facial capture .
3. Many interest areas captured but the data set capture features related to the eye.
4. At the end the system predicts the truth value of the answer.
5. The data set has features for simplicity and not to get you confused are called some variable names.
6. True value of each instance is captured at the end of every record.

The code enclosed contains a simple python code on how the system has been trained as uses back propagation as the mechanism for weight updation .

You need to use the eagle strategy which allows for a range of your own algorithms to be implemented while moving from explore to exploit.

So you would need to write your own model.fit type of function

It must beat the accuracy of the simple python code and do it faster than the plain vanilla code given to you.

Good luck.

Remember - 16th Nov - Submission date ….