

Image recognition

Please, tell me your friend's name? (Face detection)

Build a model using any of machine learning techniques to know who(person) in this image. We learn model to recognize only 6 persons which are people belong to machine learning project team. To start any machine learning project, we have to know what is our dataset then which model will be used.

Task#1

Collect dataset

- Each one in team will collect 250 images for himself. Image should contain only face of person.
- Total images are 250×6 is 1500
- Every image must be labeled with name
- All images must be the same size (preferred be 32×32 or 48×48)

The best way to collect the images quickly and efficient. Cropped your face from your previous images with your friends then using a code to scale image to our preferred size.

Task#2

Build Machine learning model

1 - Build your model using Neural Network, using many architectures like different hidden, activation function, number of neurons or anything else.

1 -Save the best weights of best model and write description; why it's the best from your point view?

2- save all your results in excel and write your conclusion

2 - Build your model using Convolution neural network.

1 -Save the best weights of best model and write description; why it's the best from your point view?

2- save all your results in excel and write your conclusion

3 - To build your model use 80% for training and 20% for testing

May be there are no grades for these tasks or Only 1 grade bonus but who will do these tasks will be appreciated :D. Only if we reach to good accuracy

4 - Raise up your dataset using fake data. (appreciated no doubts grade)

5 - Integrate your model in mobile. (appreciated no doubts grade)

6 - Using any model better than convolution. (appreciated no doubts grade)

