

Table of contents

- 1. <u>Handwritten Digit Recognition</u>
- 2. <u>Dataset</u>
- 3. <u>Enviroment</u>
- 4. <u>Some of libraries</u>
- 5. <u>Simple version of the procject</u>





Handwritten Digit Recognition

The program will learn using provided database how each digit is represented on 28x28 dimensional plane and will try to predict it.

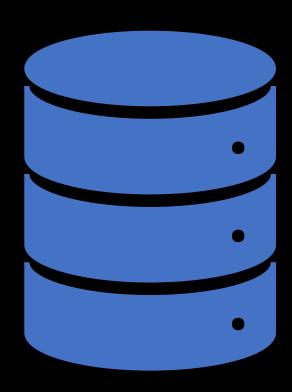
```
mirror object to mirror
paration = "MIRROR X":
ilror = od.use x = True
ilror = od.use x = True
ilror = od.use x = True
ilror = od.use x = False
operation = "MIRROR X":
ilror = od.use x = False
operation = "MIRROR X"
ilror = od.use x = False
ilror
```



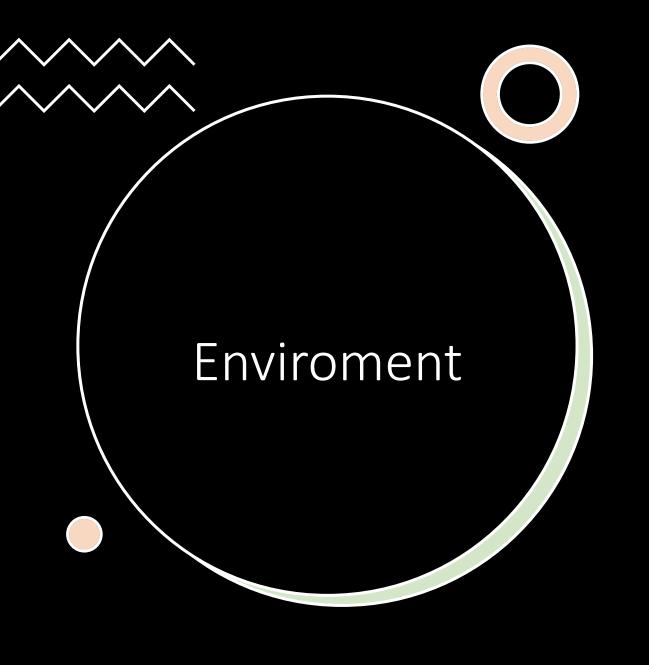


For my project i will use MNIST database, using it I will be able to obtain the model that will predict which number from 0 to 9 was written.

Database contains 60,000 training images and 10,000 testing images







For my project I will use Python. It has many libriaries for working with neural networks and representing data.



Some of the libraries that I decided to use are Numpy and Tensorflow.

Tensorflow lets you to do easy model training and testing also you can find online a lot of guides how to use it.

Numpy lets me to show the predicted values of digits.

Simple version of the project

