



Wydział Automatyki, Elektroniki i Informatyki

Katedra Grafiki, Wizji Komputerowej
i Systemów Cyfrowych



Academic year

Group

Section

2021/2022

SSI

BIAI

2

Supervisor

Marcin Wierzchanowski

Names of
section members

Michał Maźniewski

contact email
(polsl domain!!):

michmaz061@student.polsl.pl

Project card

Subject:

Handwritten Digit Recognition

Main assumptions:

The task is to classify a given image of a handwritten digit into one of 10 classes representing integer values from 0 to 9. Using MNIST dataset of 60,000 small square 28×28 pixel grayscale images of handwritten single digits between 0 and 9.

Building the model that will train and learn how to classify these images.

While adding images to our model we need to make them from 28x28 dimensional to 1x784 dimensional so the input layer of the neural network can deal with it.

Input and hidden layer will consist of 128 neurons, output layer will have 10 neurons.

For those tasks I will use tensorflow library.

Date

Mark:

Assumptions

Presentation

Impl/
Research descr.

Report

Final mark: