LaTeX Brain Tumor Project Documentaiton

Abstract

1. Introduction

This project Uses Data set of a differnet brain tumor pictures and train that data set for future discovery of this matter.

1.1. Programming Language

Python

1.2. Mapping

Mapping Data set was done through saving their paths in a text file called Map.txt

1.3. Mathematics

Mathmatics functions used in the project are conv2d,maxpool2d,localresponsenormalization.
These funcitons are a part of tflearn liberary.

2. Code Details

The Code follows a pattern in which it gets the mapped files from the Map.txt file, then it stores them into an X and Y arrays. The mapped files (which are the data set pictures) are reshaped into 28x28 size and turend a gray scale so that the system is trained using alpha points to identify a tumor. The code works at accuarcy of 0.97 and lost value of 0.2 with 10000 epochs.

3. References

The whole project was uploaded on Github: https://github.com/Kamzoki/NNProject You can also find the project on the same DVD which this document on, along with all the assets.