

**Project documentation**

Subject: **Programming languages**

Project title: **Data Analyzer**

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The documentation contents:

* Specification – the main assumption about the goal of the project and it’s functionality.
* The implementation – describe how the project was implemented
* User guide – demonstrate how to use the application
* Source materials that were used while doing the project – specify all the materials that were helpful for creating the application (tutorials, books, video courses, etc.)

Specification

Data Analyzer is the utility that calculates the mean , standard deviation , maximum and minimum value , etcetera, of a set of numbers that the user inserts in the CSV file and is shown in a graph representation.

The Implementation

The graphic user interface is implemented using PyQT. It consists of one window which is the QMainWindow. It consists of 2 push buttons, the 1st button opens QFileDialog for importing the CSV file, and the 2nd button is connected to the slot called Plot which displays the statistical properties (number of elements ,mean ,standard deviation ,minimum & maximum value ,percentages of the total value & the graph) to the Result QTextEdit.

User Guide

The user inserts their set of numbers in the csv file , then in the main window there is a button “Import CSV File” that allows the user to import the csv file. The last step is to press the “graph” button which runs the program and the user gets their results.

Source materials

* Programming languages presentations
* Youtube channels : Sentdex , Ziga Benko , PyTutorials
* Github.com
* Stackoverflow.com