

**Individual Delivery**

23/07/2020 to 10/08/2021 ← The start date to end date

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Data Science

The Bridge

NOTE - Change the document photo to represent your project individually.

**General Vision**

Here is the vision of the project. Write the context of your project.

**Goals**

Write here your evaluation goal. If you opt for option B, write B. If you opt for option A+, write all the pluses finished.

**Specifications**

In order to do the goals and make the delivery the most, we are going to specify all the necessary to do it possible...

Software

Python and the different libraries used:music21, pandas, numpy, os, zipfile...

Hardware

As it is a software program, we have to specify the minimal hardware that we need to have to execute the software program.

computer

Requirements

All midis ordered by the specified composition categories.

**Steps**

* Research the context

keys and key signatures

* Get Data

large dataset of beethoven works in midi form from the internet.

(I looked for mozart and haydn for contrast but cound not find for free).

* Data Wrangling

The data came zipped, so i simply had to unzip the folders and select only the midi files from the folder.

* Data Mining / Clean Data

To extract the wanted infromation from the midi files I converted them into music21 streams from which i cound then obtain information related to keys and chords.

* Others...

Understanding the streams, and how exactly to obtain the correct information from them.