

Data Analytics Project Report

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1 Introduzione

The following project was developed as part of the **Data Analytics** course of the Master's Degree in Computer Science at the University of Bologna.

The objective of the project is to carry out a data analytics study, which involves the implementation of all the analytical pipeline phases studied during the course:

- Data Acquisition
- Data Visualization
- Data Preprocessing
- Modeling
- Evaluation

The main purpose of this study is to recognize the year in which a song was published based on the features of its audio track.

The following functionalities were developed:

- Traditional non-deep supervised Machine Learning techniques
- Supervised ML techniques based on neural networks
- Supervised ML technique with deep models for TabularData