

## Vidyavardhini's College of Engineering & Technology

Name: Abhishek Jani

Department: Information Technology

Experiment No.1

Collect, Clean, Integrate and Transform Healthcare Data based on

specific disease

Date of Performance: 4/8/2023

Date of Submission: 11/8/2023

Aim: Collect, Clean, Integrate and Transform Healthcare Data based on Heart disease.

**Objective:** The objective of this experiment is to perform basic pre processing on healthcare data set using python libraries

Theory:

<u>Data Collection</u>- Data collection is the process of gathering and measuring information from countless different sources. In order to use the data we collect to develop practical artificial intelligence (AI) and machine learning solutions, it must be collected and stored in a way that makes sense for the business problem at hand.

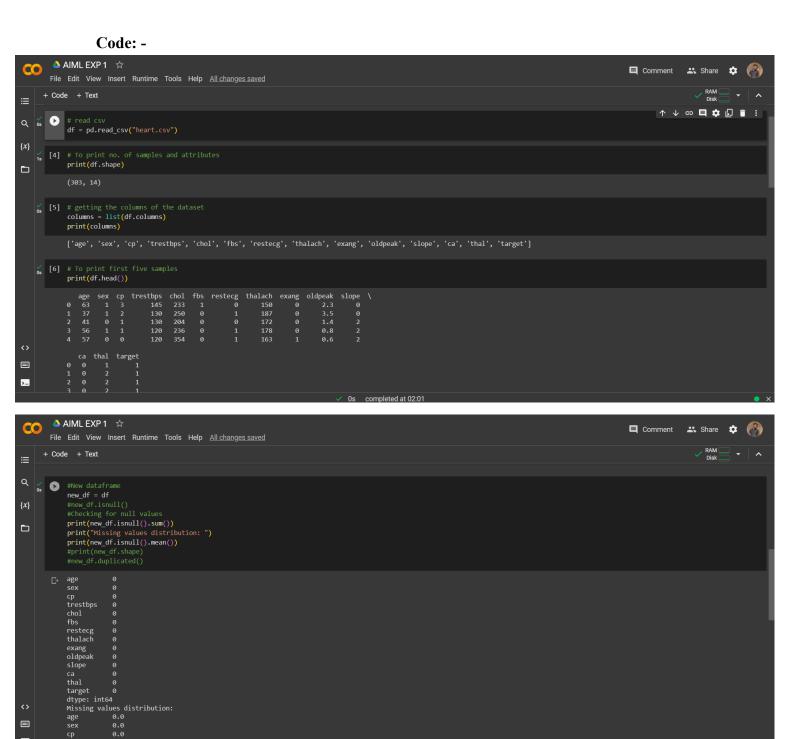
<u>Data Cleaning:</u> Cleaning data refers to the way of deleting wrong, corrupted, wrongly formatted, duplicate information, or incomplete information from a dataset. The possibility of duplicating or mislabelling data increases when two or more data sources are combined.

<u>Data Integration:</u> Data integration is the practice of consolidating data from disparate sources into a single dataset with the ultimate goal of providing users with consistent access and delivery of data across the spectrum of subjects and structure types, and to meet the information needs of all applications and business processes.

<u>Data transformation:</u> Data transformation is the process of converting, cleansing, and structuring data into a usable format that can be analyzed to support decision making processes, and to propel the growth of an organization. Data transformation is used when data needs to be converted to match that of the destination system.



## Vidyavardhini's College of Engineering & Technology



0s completed at 02:01

>\_

## Vidyavardhini's College of Engineering & Technology

## Google Collaboratory Link: -

https://colab.research.google.com/drive/1eWmsGfryXAfUEqOHx35JA856gwL2n55w?usp=sharing

**Conclusion:** - Thus, we have successfully Collected, Cleaned, Integrated and Transformed our healthcare data.