



AHSANULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY

Department of Computer Science and Engineering

CSE4108: Artificial Intelligence Lab

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Documentation of the Dataset

Lab Section: A1

Submitted To

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1 Overview of the Dataset

Name of the Dataset	Glass Identification Database
File Format of the Dataset	.csv
Dimension of the Dataset	214 x 10
Number of Total Columns	10
Number of Total Rows	214
Number of Feature Columns	9
Name of Feature Columns	RI, Na, Mg, Al, Si, K, Ca, Ba, Fe
Number of Target Column(s)	1
Name of Target Columns	Type

2 Description of the Features in the Dataset

Name of the Feature : RI(refractive index)

Unit : Float

Description : The refractive index of glass determines how much the path of light is bent, or refracted, while entering the glass. This column contains the refractive index of the glasses which is always greater than one and float value.

Name of the Feature : Na(Sodium)

Unit : Float

Description : This feature column contains the unit measurement of weight percent in corresponding oxide of Na (Sodium) element in the glass. This is always a float value.

Name of the Feature : Mg(Magnesium)

Unit : Float

Description : This feature column contains the unit measurement of weight percent in corresponding oxide of Mg(Magnesium) element in the glass. This is always a float value.

Name of the Feature : Al(Aluminium)

Unit : Float

Description : This feature column contains the unit measurement of weight percent in corresponding oxide of Al(Aluminium) element in the glass. This is always a float value.

Name of the Feature : Si(Silicon)

Unit : Float

Description : This feature column contains the unit measurement of weight percent in corresponding oxide of Si(Silicon) element in the glass. This is always a float value.

Name of the Feature : K(Potassium)

Unit : Float

Description : This feature column contains the unit measurement of weight percent in corresponding oxide of K(Potassium) element in the glass. This is always a float value.

Name of the Feature : Ca(Calcium)

Unit : Float

Description : This feature column contains the unit measurement of weight percent in corresponding oxide of Ca(Calcium) element in the glass. This is always a float value.

Name of the Feature : Ba(Barium)

Unit : Float

Description : This feature column contains the unit measurement of weight percent in corresponding oxide of Ba(Barium) element in the glass. This is always a float value.

Name of the Feature : Fe(Iron)

Unit : Float

Description : This feature column contains the unit measurement of weight percent in corresponding oxide of Fe(Iron) element in the glass. This is always a float value.

3 Data Sources

Data are collected from below sources

- [1] <https://archive.ics.uci.edu/ml/datasets/Glass+Identification>
- [2] <https://archive.ics.uci.edu/ml/machine-learning-databases/glass/>
- [3] <https://archive.ics.uci.edu/ml/machine-learning-databases/glass/glass.names>

4 The distribution of the labels for classification dataset

The count of different types of the classification

Type	Total Count
Type 2	76
Type 1	70
Type 7	29
Type 3	17
Type 5	13
Type 6	9