

## A REPORT OF

# **“Data Mining Laboratory”**

# **Code: 5IT451**

Submitted by

**Miss. Sonali Kaingade (21620002)**

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DEPARTMENT OF INFORMATION TECHNOLOGY

**WALCHAND COLLEGE OF ENGINEERING, SANGLI**

**(An Autonomous Institute) 2023-2024**

## **CERTIFICATE**

This is to certify that the report entitled

**“Data Mining Laboratory (DM Lab) 5IT451***”*

submitted by

**MISS. SONALI KAINGADE (21620002)**

is a record of student’s own work carried out by him during the academic year

2023-2024, as per the curriculum/syllabus laid down for the DM lab at Final year B. Tech IT Sem-I. She has carried out experiments successfully.

**Dr. R. R. Rathod**

**(Course Teacher)**

**Declaration**

I, the undersigned, hereby declare that the BTech report entitled “Data Mining Laboratory (DM Lab) 5IT451” submitted by me to the DM Lab report at Final year BTech IT Sem-I, is my original/experimented/experience work. I further declare that, to the beat of my knowledge and belief, this report has not been previously submitted or copied by me.

I declare that this report reflects my thoughts about the subject in my own words. I have sufficiently cited and referenced the original sources, referred, or considered in this work. I have not misinterpreted, fabricated, or falsified any idea/data/fact/source in this my submission. I understand that any violation of the above will be cause for disciplinary action by the course teacher/institute.

(Sign)

Date: **Miss. Sonali Kaingade**

Place: WCE Sangli

## **Acknowledgement**

I feel immense pleasure in submitting the report entitled “Data Mining Laboratory (DM Lab) 5IT451”. I am thankful to our guide Dr. R. R. Rathod for their valuable guidance and kind help during implementing the DM Lab.

Acknowledged By,

**Miss. Sonali Kaingade**

## **Data Mining Lab Book**

**Name:** Sonali Dattatray Kaingade

**PRN:** 21620002

**Class:** Final Year IT - Sem I (2023-2024)

|  |  |  |
| --- | --- | --- |
| Sr. No. | Title | Page No. |
| 1 | Study and use of different types of graphs and charts (use MS-XLS). |  |
| 2 | Perform Normalization of data (Min-Max and Z-score). |  |
| 3 | Perform Binning of data. |  |
| 4 | Find the Info Gain of an attribute from the given data. |  |
| 5 | Find the t and d weight of the data. |  |
| 6 | Find 5 no summary of a dataset. |  |
| 7 | Find frequent item sets from given transaction data. |  |
| 8 | Extend program 6, to find association rules. |  |
| 9 | Find correlation between items/entities. |  |
| 10 | Distance and cluster. |  |
| 11 | Agglomerative Hierarchical Single Linkage Clustering. |  |
| 12 | Attribute for classification A. Gain B. Gini Index |  |
| 13 | WAP for Bayes classification. |  |
| 14 | WAP to implement any DM concept on complex data type. |  |

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