



A REPORT OF

## **“Data Mining Laboratory”**

**Code: 5IT451**

Submitted by

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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 best 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.	