



# Parul University

## FACULTY OF ENGINEERING AND TECHNOLOGY

Data Analytics and  
Data Visualization  
(303105315)

5<sup>th</sup> SEMESTER

# Laboratory Manual

## CERTIFICATE

This is to certify that **BAGADI PIYUSH MANGALCHAND** with enrolment no.

**2203031050081** and **5<sup>th</sup> Semester/ CSE 5B33(Batch 2)** has successfully

completed her laboratory experiments in the **Data Analytics and Data Visualization (303105315)**

from the department of **Computer Science & Engineering** during the academic year **2024-25**



Date of Submission: .....

Staff In charge: .....

Head Of Department: .....

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Sr. No	Experiment Title	Page No		Date of Start	Date of Completion	Sign	Marks (out of 10)
		From	To				
1	Perform Exploratory Data Analysis on the given dataset using Python.						
2	Calculate mean, median and mode of the first 50 records in the given dataset using python.						
3	Perform Multiple Linear Regression on data.						
4	Perform the Logistic Regression on a dataset.						
5	Use a dataset & apply K means clustering to get insights from data.						
6	Perform the Decision tree classification algorithm using a dataset.						
7	Study and installation of the tools like PowerBI tool for data Visualization.						
8	Load a dataset from different sources in PowerBI and apply transformations to it.						
9	Study and Plot various graphs for Data Visualization on PowerBI.						
10	Given a case study: Interactive Data Analytics with Power BI Dashboard.						