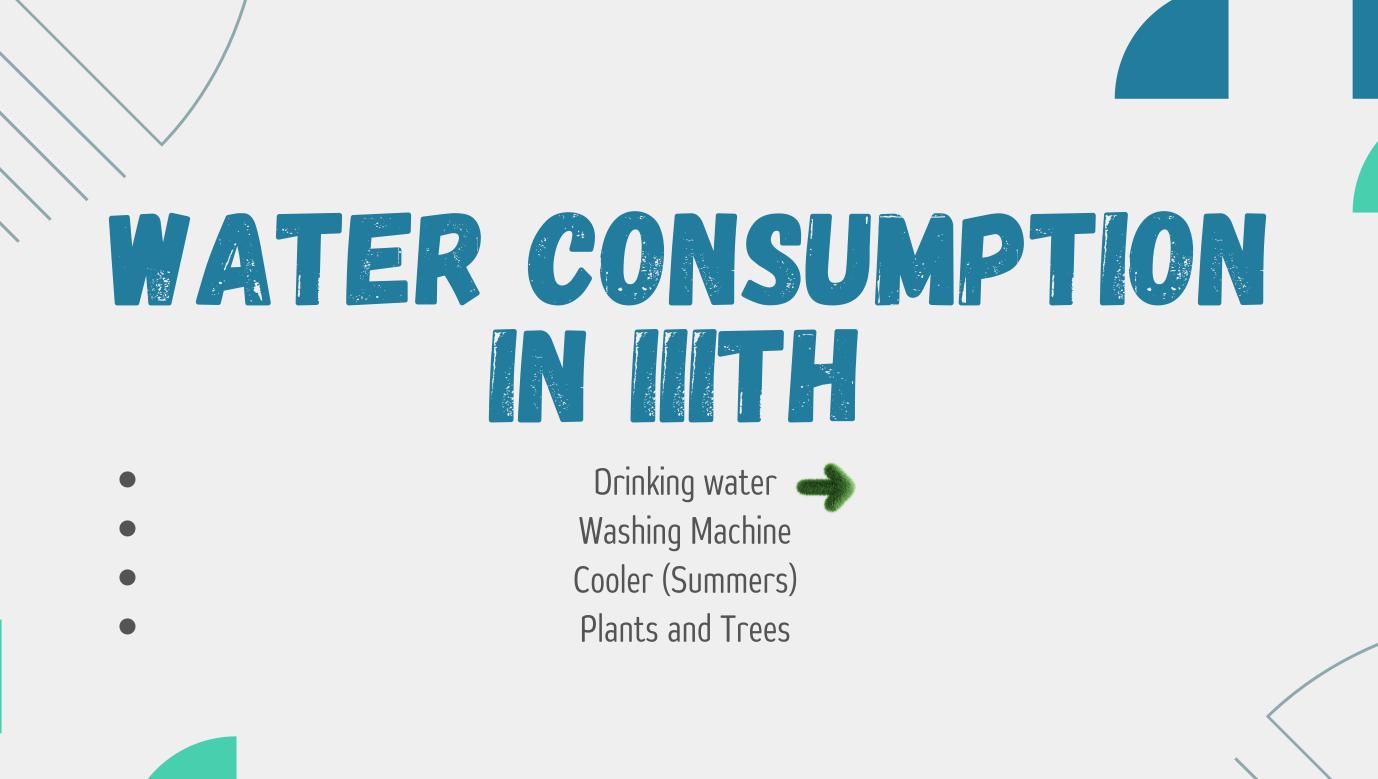
HYDRO INFORMATICS SYED IMAMI 2020113012



01 - INTRODUCTION

- In August and September 2023, the college faced a significant water quality issue, prompting concerns among the campus community.
- As a result, many individuals resorted to using water from external sources, indicating a loss of trust in the management's ability to provide clean water.
- Analysis of the data reveals drops in water consumption and drinking habits observed in August and September 2023.
- Shift from bore water to RO and Manjeera water due to bad quality water issues, specifically TDS levels.

02 - PROBLEM

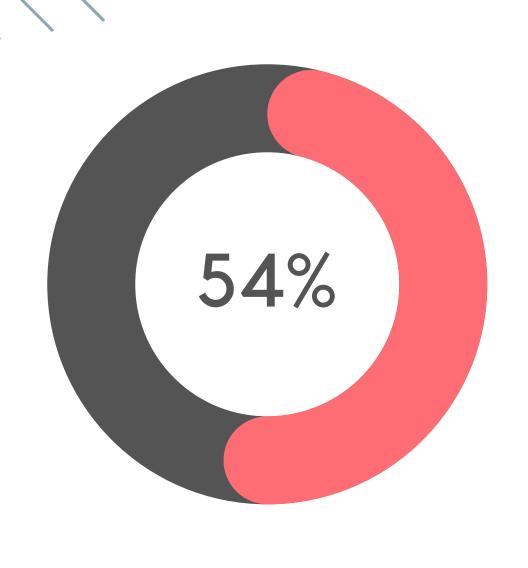
- Quality of Drinking Water: Highlight the concerns regarding the quality of drinking water on campus, specifically the increase in TDS levels leading to bad taste and health concerns.
- Excessive Water Usage: high water consumption levels despite efforts to address the quality issues.

03 - DATA ANALYSIS

- Water Consumption Trends: Analyze the data to identify trends in water consumption before and after the introduction of RO and Manjeera water.
- Drinking Water Preference: Examine the data to understand the preference for purchased water over campus-provided water.
- Impact of Quality Issues: Quantify the drop in water consumption during August and September 2023 due to bad quality water issues.

WATER CONSUMPTION

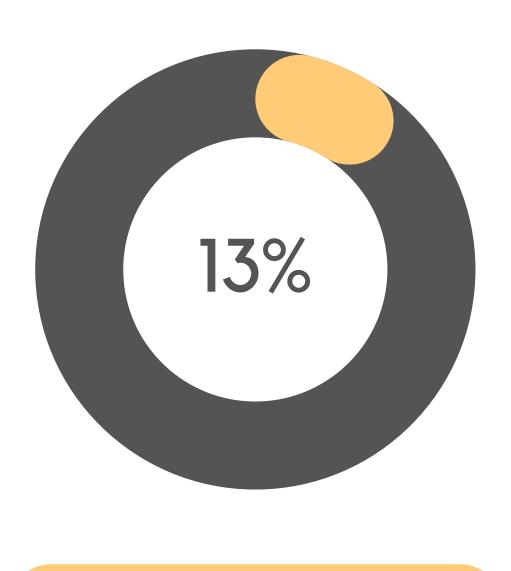




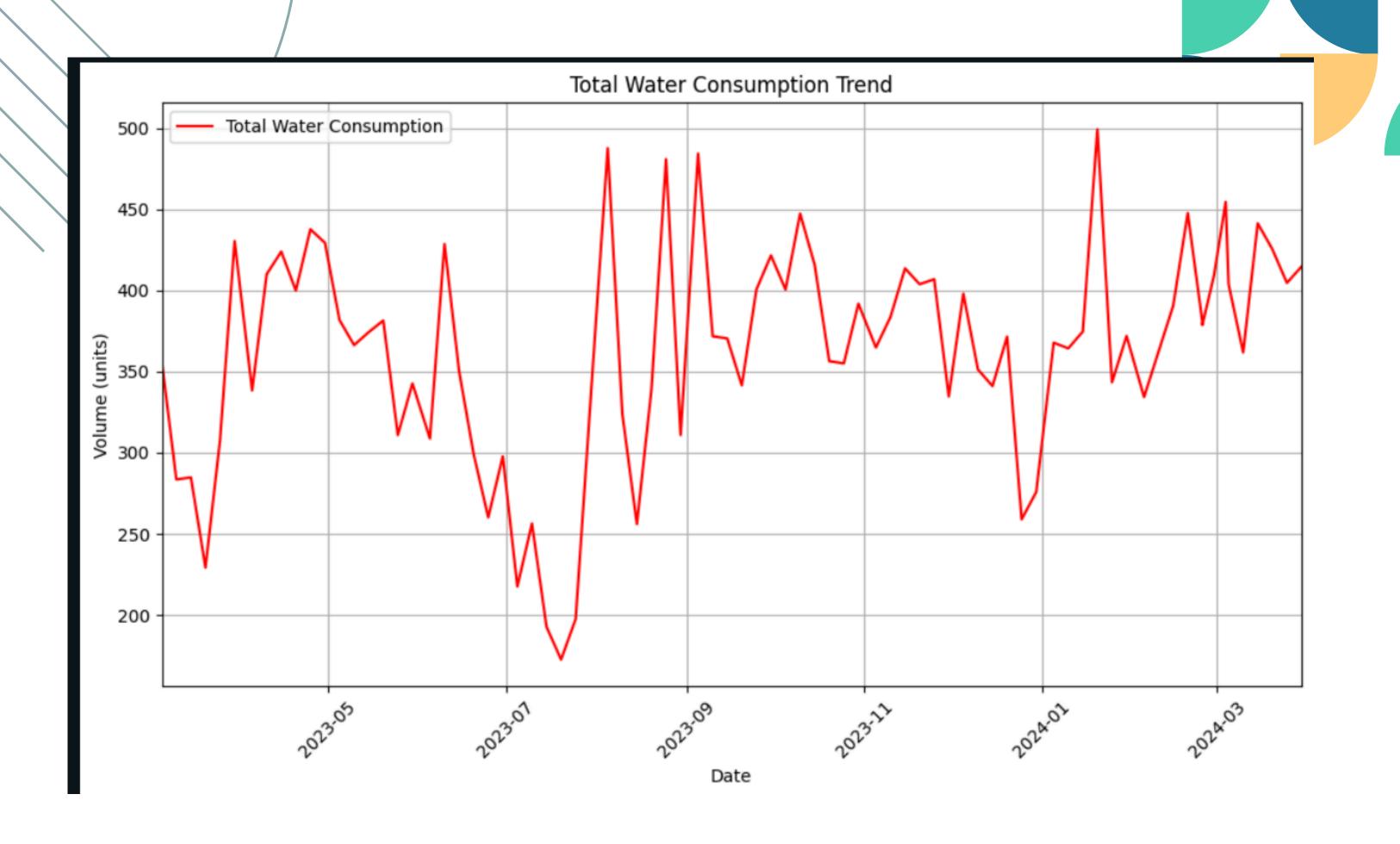
PARIJAAT

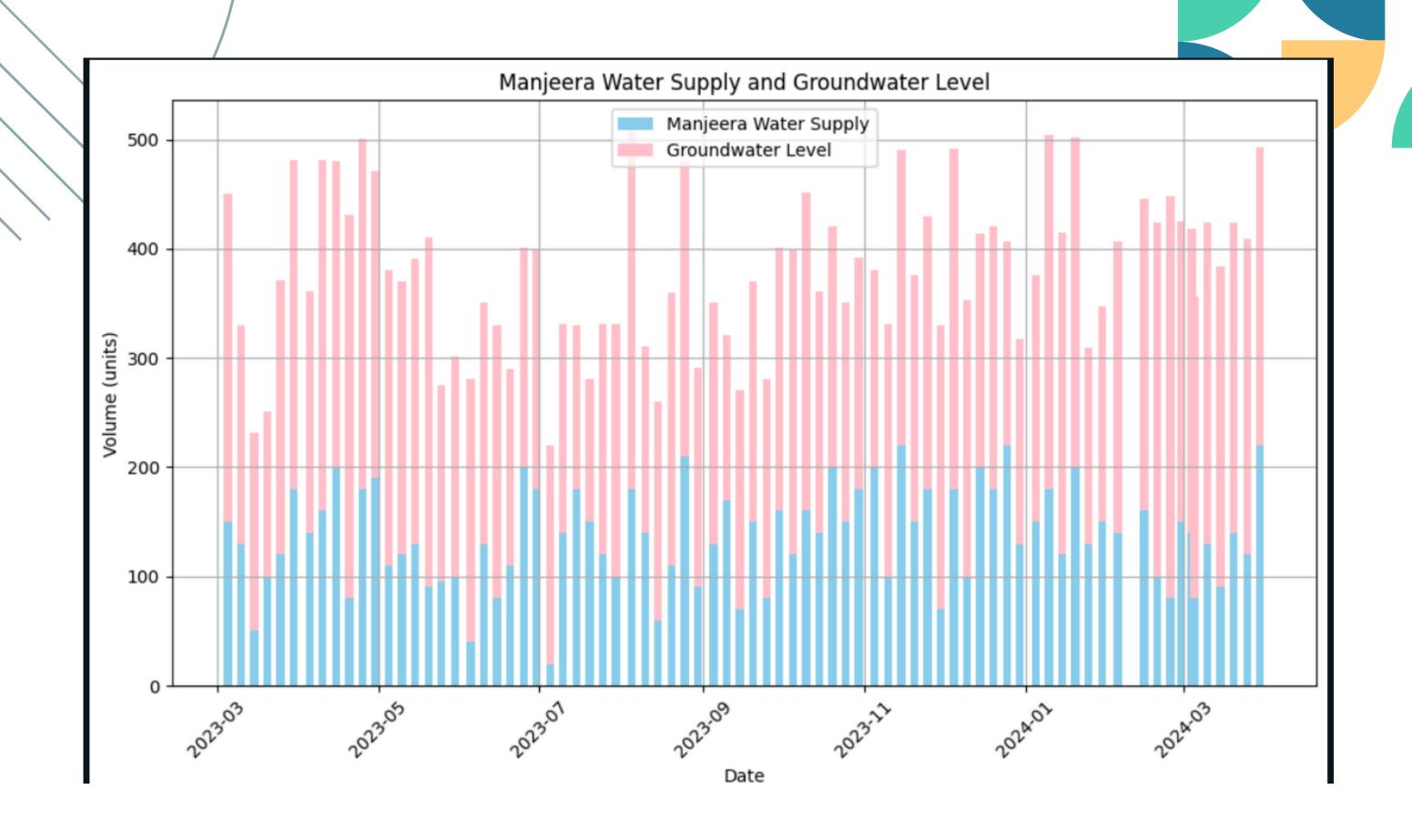


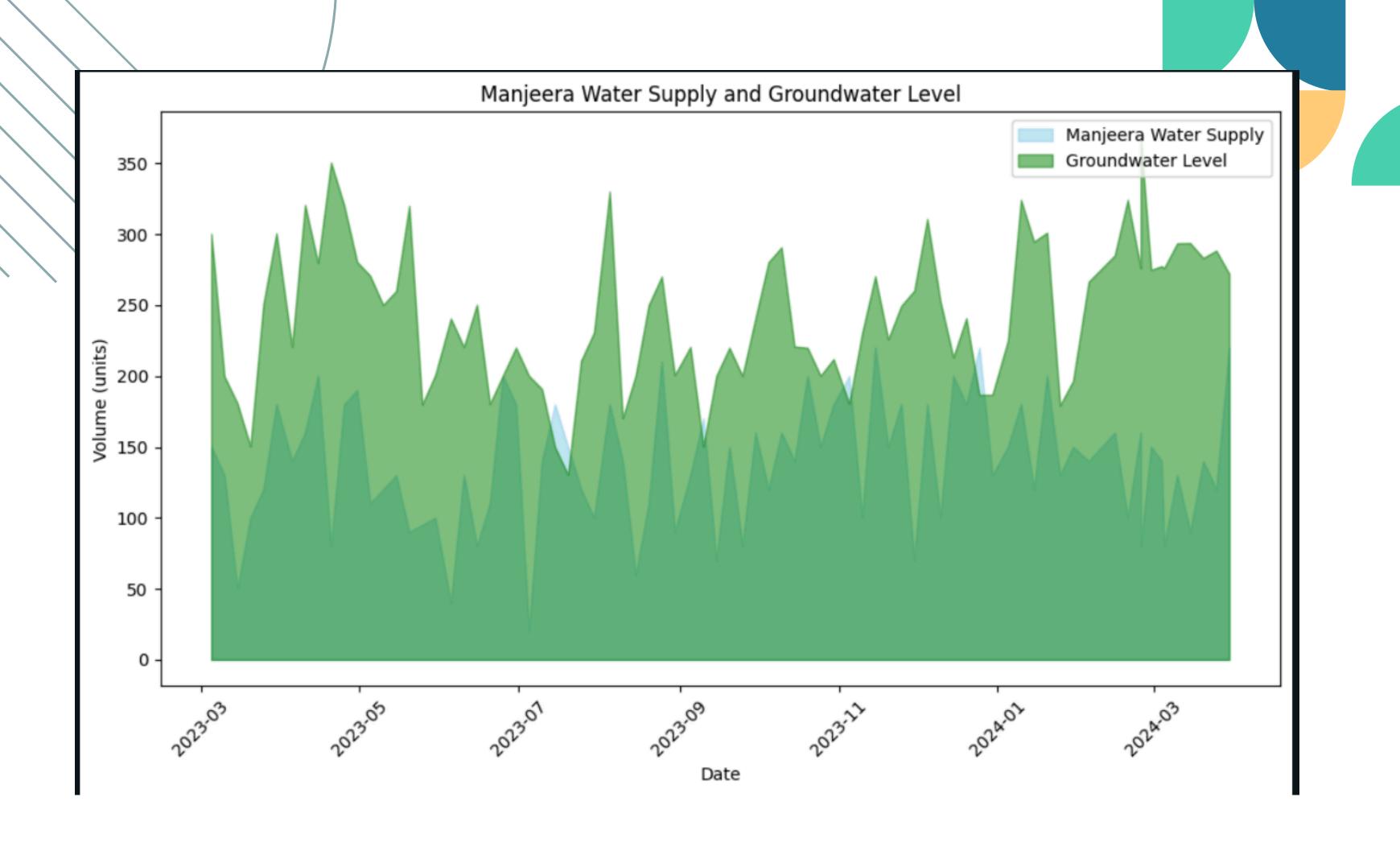
33%

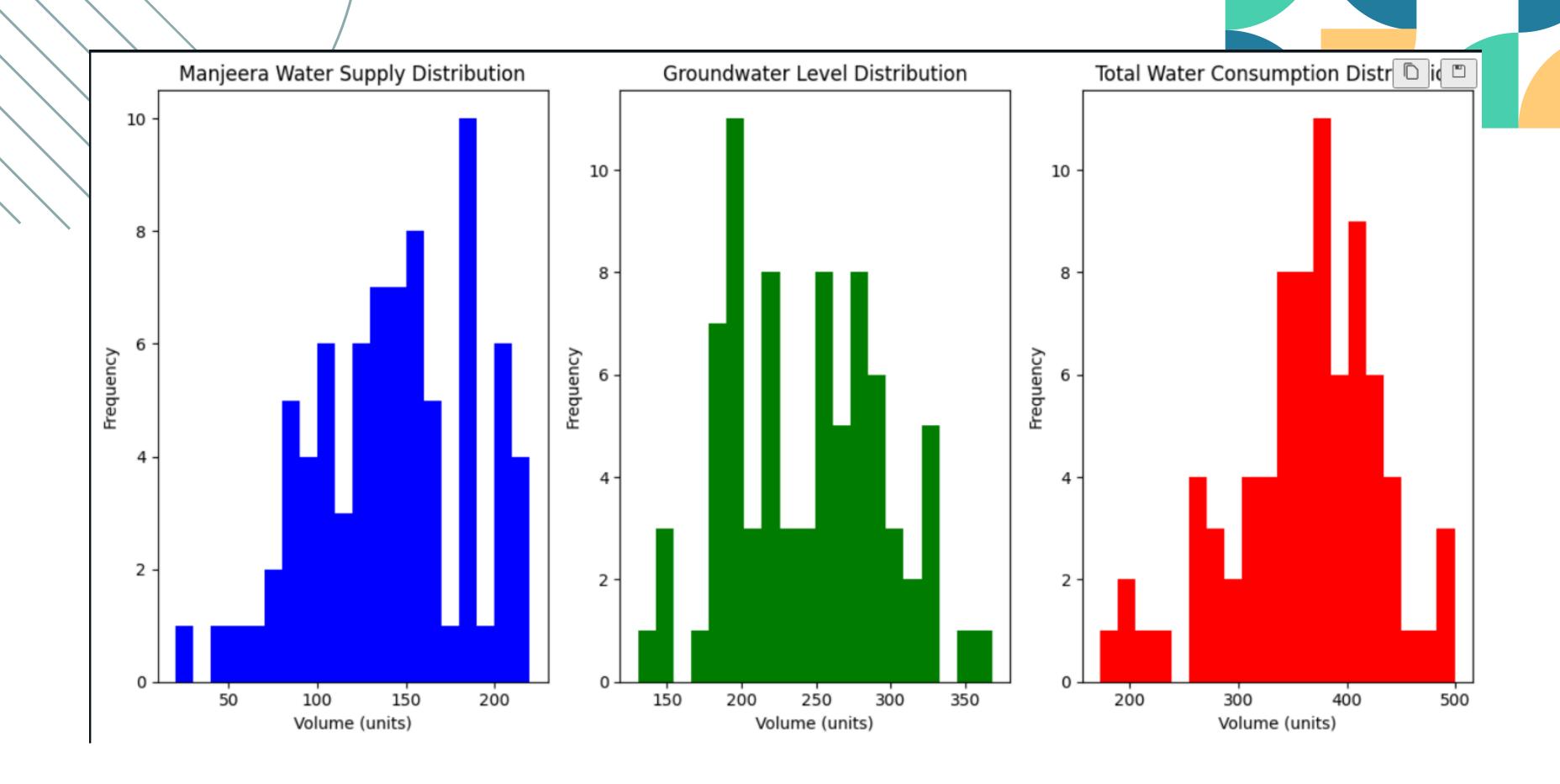


LABS AND WORKSPACE









04 - CONSEQUENCES

- Health risks associated with consuming water high in TDS, including digestive issues, mineral imbalances, and long-term health concerns.
- Impact on academic and work performance due to discomfort and illness caused by contaminated water.
- Damage to the college's reputation and credibility, affecting student enrollment and institutional growth.

05 - PROPOSED SOLUTION

- Improving Water Quality: Implement measures to address the TDS levels in drinking water, such as enhanced filtration systems or regular testing and treatment.
- Building Trust: Enhance communication and transparency regarding water quality testing results and efforts taken by the management to improve it.
- Promoting Sustainable Practices: Launch awareness campaigns to educate students and staff about the techniques of water conservation and encourage the use of refillable water bottles.

ML MODEL

- To predict the amount of water to be drawn for the next upcoming months and to reduce the water wastage
- The model uses linear regression to predict the values and the mean square error for the predicted value of water usage 0.086

07-BENEFITS

- Assurance of safe and clean drinking water for all members of the college community.
- Improvement in health and well-being, leading to enhanced academic and work performance.
- Reducing water wastage and also plastic wastage.
- Can predict the actual amount of water that is required to draw

08 - CONCLUSION

- In conclusion, addressing water consumption and drinking issues in our college campus is crucial for the health, well-being, and reputation of our institution.
- By implementing the proposed solutions and fostering a culture of transparency and accountability, we can overcome the challenges and ensure a sustainable water supply

THANK YOU