

Name: Nakshatra Rollno. - 2501227006

Assignment - 2

Data-Driven Decision Making

## Task 1 Survey

Objective: To collect feedback about overall student satisfaction at KR Mangalam University

## → Survey Question

1. How satisfied are you with the overall learning at KRMU?
2. How would you rate the quality of teaching & faculty support.
3. Are you satisfied with the cleanliness & infrastructure?
4. How accessible are academic & administrative staff when need you help?
5. How would you rate the co-curricular activities offered
6. Do you find library & Lab resources adequate for studies
7. How satisfied are you with the university digital platform
8. Do you feel your feedback is taken seriously by the university
9. Would you recommend K.R. Mangalam University to a relative
10. Any suggestions for improvement

## Task-2 Simulated Data Collection

A sample of 12 students was recorded. The data below represents students feedback on a 5-point scale where 1= very dissatisfied and 5= very satisfied

Respondents	Satisfaction	Infrac.	Faculty	Digital	Recomm-ended
Umesh	4	4	5	3	5
Rajiv	3	4	3	2	4
Aryun	1	2	4	4	3
Ram	5	3	5	4	5
Tarhan	2	5	4	3	4
Bhavya	5	3	3	5	2
Kunal	3	3	5	4	3
Vibhav	2	4	3	3	1
Sushil	4	4	2	2	3
Nishant	4	3	5	4	5
Harmah	3	4	4	3	3
Sewran	2	5	4	2	4

### Task 3 Data cleaning Process

- 1) Removing Duplicates: One respondent had submitted the survey twice; the duplicate row was deleted
- 2) Handling Missing Values: For one entry with a missing faculty support rating, the avg score (4) was used to fill in the values
- 3) Correcting Inconsistent formatting: In some responses text based ratings like 'five' were replaced with numerical values (5)
- 4) Standardisation: All columns were formatted to numeric scale (1-5) for easy analysis
- 5) Validation: The dataset was reviewed to confirm there were 12 unique & complete values

## FASK 4 Ethical Consideration in Data Collection

- 1) Informed Consent : Participants were informed about the purpose of the survey before participation.
- 2) Anonymity : Names as identifiable details were not collected only responses were recorded.
- 3) Confidentiality : All collected data was stored securely shared only for academic purposes.
- 4) Voluntary Participation : Respondents had the choice to skip any questions they were not comfortable answering.
- 5) Integrity : No manipulation or falsification of responses was done to influence outcomes.