



SIMATS ENGINEERING

Saveetha Institute of Medical and Technical Sciences
Chennai- 602105



Student Name: P. Harshavardhan Naidu

Reg. No.: 192424407

Course Code: DSA-0613

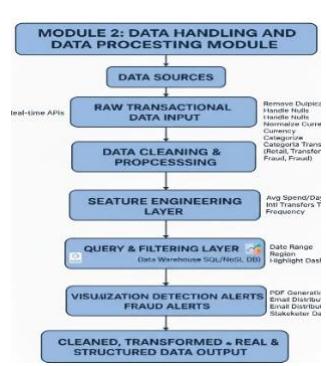
Slot: A

Course Name: Data Handling and Visualization for Data Analytics

Course Faculty: Dr.Kumaragurubaran T & Dr.Senthilvadivu S

Project Title: Digital Banking Transaction Analysis Using Data Handling and Visualization

MODULE 3:



Module 2: Data Handling and Processing						
This module takes the raw data from Module 1 and performs cleaning, transformation, and feature engineering.						
Before Processing						
Transaction ID	Date	Amount	Description Type	Category	Merchant Name	Transaction Month
1. 286233 102-408 and 07379761	2023-03-01 00:00:00	120.00	Debit	Entertainment	Entertainment	March
2. 208303 047-476 user 1426977	2023-03-01 00:04:47	40.00	Credit	Food	Food	March
3. 120004 010-001 4972000000000000	2023-03-01 00:04:47	20.00	Credit	Food	Food	March
4. 895032 037-401 476 user 1426977	2023-03-01 00:04:47	80.00	Credit	Entertainment	Entertainment	March
5. 49802 070-401 476 user 1426977	2023-03-01 00:04:47	50.00	Credit	Food	Food	March
After Processing						
Transaction ID	Date	Amount	Description Type	Category	Merchant Name	Transaction Day
1. 286233 102-408 and 07379761	2023-03-01 00:00:00	120.00	Debit	Entertainment	Entertainment	Wednesday
2. 208303 047-476 user 1426977	2023-03-01 00:04:47	40.00	Credit	Food	Food	Thursday
3. 120004 010-001 4972000000000000	2023-03-01 00:04:47	20.00	Credit	Food	Food	Friday
4. 895032 037-401 476 user 1426977	2023-03-01 00:04:47	80.00	Credit	Entertainment	Entertainment	Friday
5. 49802 070-401 476 user 1426977	2023-03-01 00:04:47	50.00	Credit	Food	Food	Friday

Digital Banking Transaction Analysis Using Data Handling and Visualization

Project Description:

- Focuses on analyzing digital banking transaction data to study customer behavior and transaction trends.
- Apply data handling techniques such as data cleaning, transformation, and aggregation to ensure accurate and reliable analysis from multiple data sources.
- Apply visualization tools to present transaction insights clearly.
- Assists in better decision-making and operational improvement.

MODULE 3: Data Visualization and Reporting

- Defines data handling concepts and data processing stages.
- Represents data using structured and semi-structured formats.
- Applies data cleaning, transformation, and aggregation techniques.
- Eliminates missing, duplicate, and inconsistent data early.

Student Signature

Guide Signature