



Department of Information Technology
Academic Year 2025 - 2026 (Odd Semester)

Degree, Semester & Branch: III Semester B.Tech. IT

Course Code & Title: CS3352 & Foundations of Data Science

Name of the Faculty member (s): Dr.V. Anusuya, ASCP/IT

Innovative Practice Description

- **Unit / Topic:** Unit I / **Data warehousing**

- **Course Outcome:** CO1

- **Topic Learning Outcome:** TLO2

- **Activity Chosen:** Cross Word Puzzle

- **Justification:**

In unit I, Data warehousing and its architecture is an important topic and the questions were asked in most of the university questions. This activity helps the students to recall the concepts.

- **Time Allotted for the Activity:** 10 Minutes

- **Details of the Implementation:**

- The topic Datawarehouse and it's architecture taught in the previous classes. The time allotted for the activity is 10 Minutes.
- Ms.Varuna sree and Dhanya Sankari prepared the questions and answer
- Next day displayed the puzzle in the projector as shown in Figure 1 and 2.
- The students answered the questions in the paper as shown in Figure 4.
- The answers for the questions as shown in Figure 3

• **CO – PO / PSO mapping:**

CO	PO1	PO2	PO3	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	2	2	3	2

(1 – Low 2 – Moderate 3 – High)

• **PO / PSO mapped:**

Innovative practice	PO1	PO2	PO3	PO12	PSO1	PSO2	PSO3
	3	3	2	2	2	3	2
Justification for correlation	Apply basic Knowledge and fundamentals of mathematics for data warehousing operations	The students will be able to identify the need for analysis of complex engineering problems	Able to design the process flow for data warehousing operations.	The students able to recognize the need for data warehousing operations	The students able to exhibit the knowledge in statistics	The students can Exhibit knowledge for data warehousing in the field of IoT, Cloud Computing to develop IT solutions	The students able to exhibit knowledge of dataware housing develop a quality product.

- Images / Screenshot of the practice:

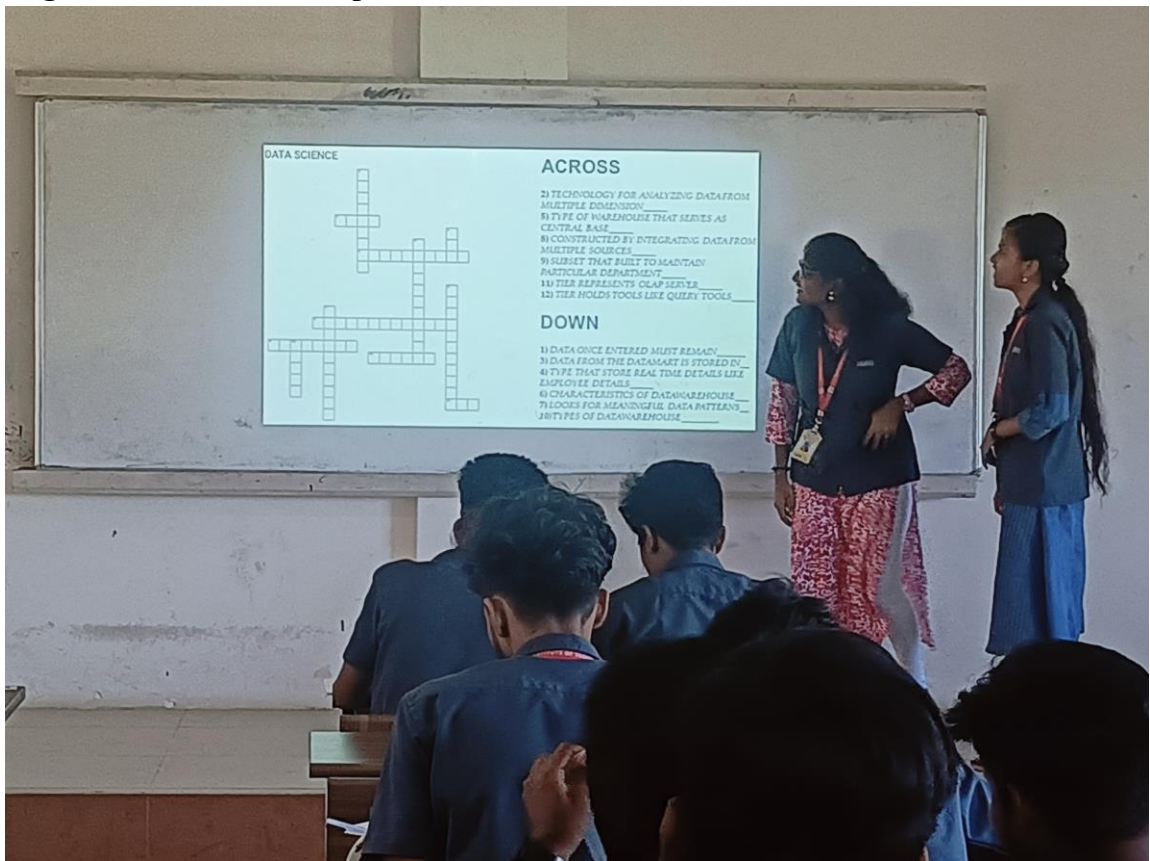


Figure 1: Crossword Puzzle



Figure 2 Students during the activity

ANSWERS:

ACROSS:

- 2. OLAP
- 5. ENTERPRISE
- 8. DATA WAREHOUSE
- 9. DATA MART
- 11. MIDDLE
- 12. TOP

DOWN:

- 1. UNCHANGED
- 3. ODS
- 4. OPERATIONAL
- 6. TIME VARIANT
- 7. DATA MINING
- 8. THREE

Figure3 Answer for the Questions

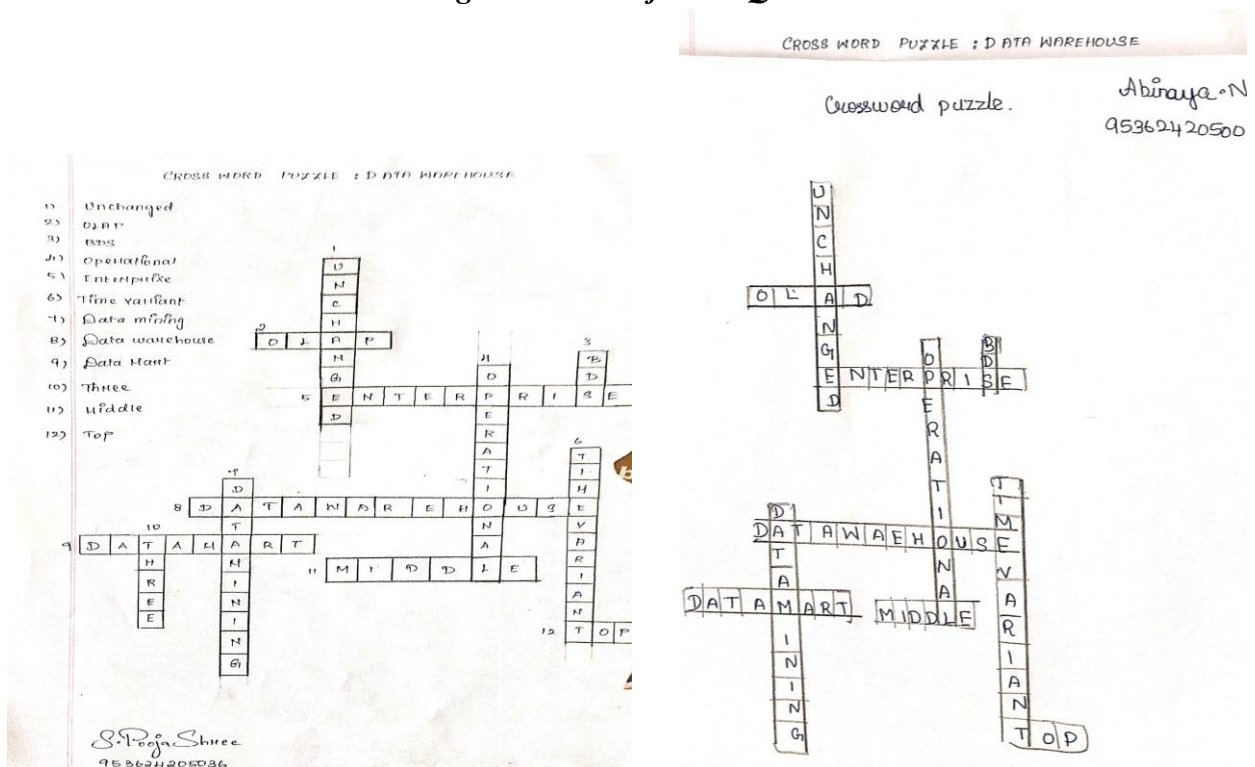


Figure4 Pooja Shree and Abinaya. N Responses

Reflective Critique:**❖ *Feedback of practice from students and other stakeholders:***

- Most students found the crossword puzzle an engaging and fun way to revise core Data Warehousing concepts such as ETL, OLAP and data marts
- Students reported that solving the puzzle helped reinforce technical terms, improve recall, and connect theoretical knowledge with practical application.
- Students have an idea about data warehousing concepts into simpler, clue-based learning.

❖ *Benefit of the practice:*

- Students are able to recall the concepts such as ETL, OLAP, star schema, snowflake schema, and data marts.
- Makes the learning process interactive and enjoyable, reducing monotony in theory-heavy topics.
- The activity also supports Students can instantly check if their answers fit, helping identify and correct misconceptions.

❖ *Challenges faced in implementation:*

- The activity was initially planned for 10 minutes but took 15 minutes to complete.
- Some clues were too easy for advanced learners but difficult for beginners, creating uneven participation.

References:

- ❖ https://www.ritrjpm.ac.in/images/computer-science/2022-2023/1_VA_CS3362_Cross_Word_Puzzle.pdf.
- ❖ <https://www.nureva.com/blog/education/15-active-learning-activities-to-energize-your-next-college-class>

Signature of Faculty Member**HOD**