

PSNA COLLEGE OF ENGINEERING AND TECHNOLOGY, DINDIGUL

(An Autonomous Institution affiliated to Anna University, Chennai)

Department of Computer Science and Engineering

COLLABORATIVE LEARNING

Case Study-based Learning

Sl. No	Course Code	Course Title	Faculty Name	Topic	Academic Year
1.	CCS344	Ethical Hacking	Dr.M.Buvana	Study On Password Attack Against Security And Privacy	2024-2025
2.	GE3791	Human Values and Ethics	Dr.N.Kalpna	Social Ethics	2024-2025
3.	IT8075	Software Project Management	Mr.M.Kamarajan	Implementation of an Enterprise Resource Planning (ERP) System	2023-2024
4.	CS8079	Human Computer Interaction	Dr.Y.ArockiaRaj	Mobile HCI	2023-2024
5.	OBM752	Hospital management	Dr.M.Buvana	Role of Human Resource Management in Hospitals	2022-2023

Table 1. List of case studies assigned for several courses in three assessment years

<u>Team.No</u>	Register Number	Students Name	Section	Case Study Title
Team 1	92132213052	Gowshika S	A	<i>Real-World Examples Demonstrating Successfull Implementation Of Iot Security Protocols Across Various Industries</i>
	92132213060	Harini S	A	
	92142213245	Yuheswari V	D	
Team 2	92132213026	Aswin S	A	<i>Strategies For Ensuring The Safety Of Interconnected Iot Devices Amidst Growing Cybersecurity Concerns</i>
	92132213040	Dhayaa Nidhi A	A	
	92132213028	Balakrishnan M	A	
Team 3	92132213177	Sanju Jose J	C	<i>Study On Password Attack Against Security And Privacy</i>
	92132213160	Ramkumar B	C	
	92132213177	Santhosh Mani V	D	
	92312213320	Yuvaraja P	C	
Team 4	92132213126	Mugileash.P	B	<i>Impact Of Kismet Hacking Tools</i>
	92132213138	Pranav K R	C	
	92132213119	Narenprakash N D	B	
Team 5	92132213089	Kaviya K	B	
	92132213076	Jeya Dharshni L	B	

	92132213113	Naga Nandhini P	B	<i>Study On Man-In-The-Middle Attacks In Online Banking</i>
Team 6	92132213250	Vijaya Vivinya M	D	<i>Swiss Federal Data Breach</i>
	92132213118	Nandhitha M	B	
Team 7	92132213038	Dharshana Priya R	A	<i>Kinsing Malware On Kubernetes Clusters</i>
	92132213065	Harishma S	B	
	92232213110	Moniga P	B	
Team 8	92132213143	Premnath K	C	<i>Study On Critical Vulnearabilities In Major Corporations</i>
	92132213174	Sandharas B	C	
	92132213161	Rathin N	C	
	92132213134	Pragadeesh K	C	
Team 9	92132213195	Shifana D	D	<i>Health Data Breach Affects</i>
	92132212208	Soba S	D	
	92132213197	Shobika S	D	
Team10	92132213187	Shaheel Syed Abuthahir S	C	<i>Whale Phishing :Real Estate Cyber Fraudster In Pune</i>
	92132213185	Senthil A	C	
	92132213229	Tharun Chezhan M	D	
Team 11	92132213233	Vaibavalakshmi M	D	<i>Sql Injection Attacks In E-Commerce</i>
	92132213206	Sivayazhini P	D	
Team 12	92132213181	Sarathiraja M	C	<i>Data Breach On Capital One 2019</i>
	92132213132	Prabhakaran A K	C	
	92132213133	Pradeep M R	C	
	92132213194	Sharvesh R	C	
Team 13	92132213172	Samyuktha S K	C	<i>Strategies For Ensuring The Safety Of Interconnected Iot Devices Amidst Growing Cybersecurity Concerns</i>
	92132213147	Priyanka M	C	
Team14	92132213006	Achan Ka A	A	<i>The Colonial Pipeline Ransomware Attack</i>
	92132213007	Achuthan M S	A	
	92132213023	Arulkumaar K	A	
	92132213303	Hariharan S	A	
Team 15	92132213210	Sowdeeshwari V S	D	<i>Trojans</i>
	92132213215	Sri Varshini K M	D	
Team 16	92132213301	Ajay Prasath B	A	<i>Data Breach On Aadhaar Data 2023</i>
	92132213302	Athish Aravind S	A	
	92132213054	Gurudayal U	A	
Team 17	92132213115	Nandha Kumar S	B	<i>Viasat Attack Based On Ransomware</i>
	92132213064	Harish Kumar R	B	
	92132213117	Nandhakumar P I	B	
	92132213308	Lingaraj P	B	
Team 18	92132213239	Vishal R	D	<i>Iot Device Security In Smart Agriculture</i>
	92132213212	Sri Danush A	D	

	92132213191	Shanmuga Pandian S	D	
Team 19	92132213098	Lokesh K	B	<i>Data Breach On Acer 2019</i>
	92132213088	Kavinprasanth M	B	
	92132213103	Manikandan A R	B	
Team 20	92132213075	Jerry Philip R S	B	<i>Cryptolocker Based On Ransomware Attack</i>
	92132213097	Loakesh Kumaran V K	B	
	92132213122	Naveen Karthikeyan R	B	
Team 21	92132213029	Bharath Raj P	A	<i>Solarwind Supply Chain Cyberattack</i>
	92132213304	Jaya Ram J	A	

Table 2. Case studies assigned to students for the course CCS334-Ethical hacking

Peer learning with Padlet

The Padlet showcases a digital board where students have uploaded handwritten assignments as PDFs on "CS2C14 Foundations of Data Science – Least Square Regression." Each submission appears as a card with the student's name, roll number, and a preview of their work, including mathematical equations, graphs, and explanations. The structured grid layout with color-coded labels ensures easy navigation and tracking. Faculty facilitates in-class discussions, promoting active learning, efficient assessment, and timely feedback. Padlet is an online collaborative tool that allows users to create digital boards for sharing ideas, notes, images, and multimedia content. It enhances peer learning through interactive discussions and collaborative knowledge building.

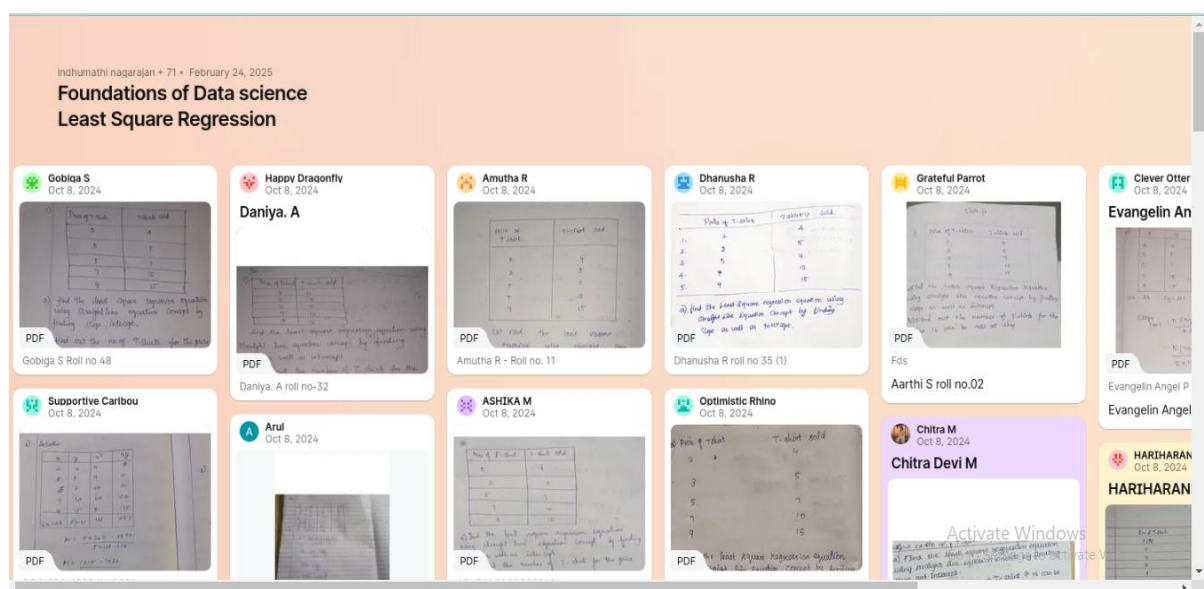


Figure 1. CS2C14 Foundation of Data Science Collaborative Learning using Padlet

S.NO	Academic Year	Course Code-Course Name	Year of study & No. of. Students	Faculty Name
1	2024-2025	CS2C14-Foundations of Data Science	III CSE A – 66	Ms.N.Indumathi

Table 3. Details of the Students collaborated through Padlet

Student's seminar

Sl. No	Course Code	Course Title	Faculty Name	Topic	Academic Year
1.	CS2312	Data Structures	Mrs.G.Mariammal	Bubble sort	2024-2025
2.	CS2C11	Artificial Intelligence and Machine Learning.	Ms.S.T.Shenbagavalli	Generalization of Reinforcement Learning	2024-2025
3.	CS2513	Object Oriented Analysis and Design	Mrs.M.Jayanthi	OO methodologies	2024-2025
4.	GE2125	Problem Solving and Python Programming	Mr.V.Karuppusamy	Armstrong Number	2023-2024
5.	CS2221	Programming in C	Mr.V.Nanda Kumar	Command Line Arguments	2023-2024
6.	GE8076	Professional Ethics in Engineering	Dr.M.Buvana	Occupational Crime	2022-2023
7.	IT8077	Software Testing	Mrs.G.Mariammal	Test Planning	2022-2023

Table 3. List of Seminar handled for several courses in three assessment years



Figure 2. GE8076 Professional Ethics in Engineering Seminar

S.No	Reg. Number	Student Name	Seminar Topic
1.	921320104001	Abhishek S	Moral Leadership
2.	921320104004	Abirami G	Respect For Authority
3.	921320104005	Abitha V	Occupational Crime
4.	921320104006	Ajeeth Kumar P	Engineers as Managers
5.	921320104007	Ajith Kumar B	
6.	921320104014	Amala Monika S	Research ethics
7.	921320104015	Anushka Sakthi A	Confidentiality
8.	921320104017	Aravindarajan P	Multinational Corporations
9.	921320104028	Asmath Banu S	Consulting engineers
10.	921320104029	Athipan J	Code of conduct
11.	921320104030	Ayushi A	Professional Rights
12.	921320104032	Barathkumar S	Explore and Write Types of Integrity Types of Risks
13.	921320104055	Fariz F	
14.	921320104033	Birundha M	
15.	921320104034	Buvaneshwaran R	Engineers as expert Witnessess and Advisors
16.	921320104035	Chandru K	Globalization
17.	921320104036	Charumathi N	Environmental Ethics
18.	921320104043	Dharanika Km	Intellectual property Rights(IPR)
19.	921320104044	Dharshini K	Conflicts of Interest
20.	921320104045	Dharshini Rm	Discrimination
21.	921320104047	Dhivyapraakash S M	Computer Ethics
22.	921320104058	Gokul B	Risk Benefit Analysis and Reducing Risk

Table 3. List of seminar topics - GE8076 Professional Ethics in Engineering

FigJam

A brainstorming session on Logistic Regression was conducted for the CS3491-Artificial Intelligence and Machine Learning course using Figma's Fig Jam board. This collaborative exercise, guided by design thinking principles, provided an interactive platform to assess students' understanding. Students actively contributed their ideas using sticky notes, engaged in discussions, and explored key concepts through visual representation.

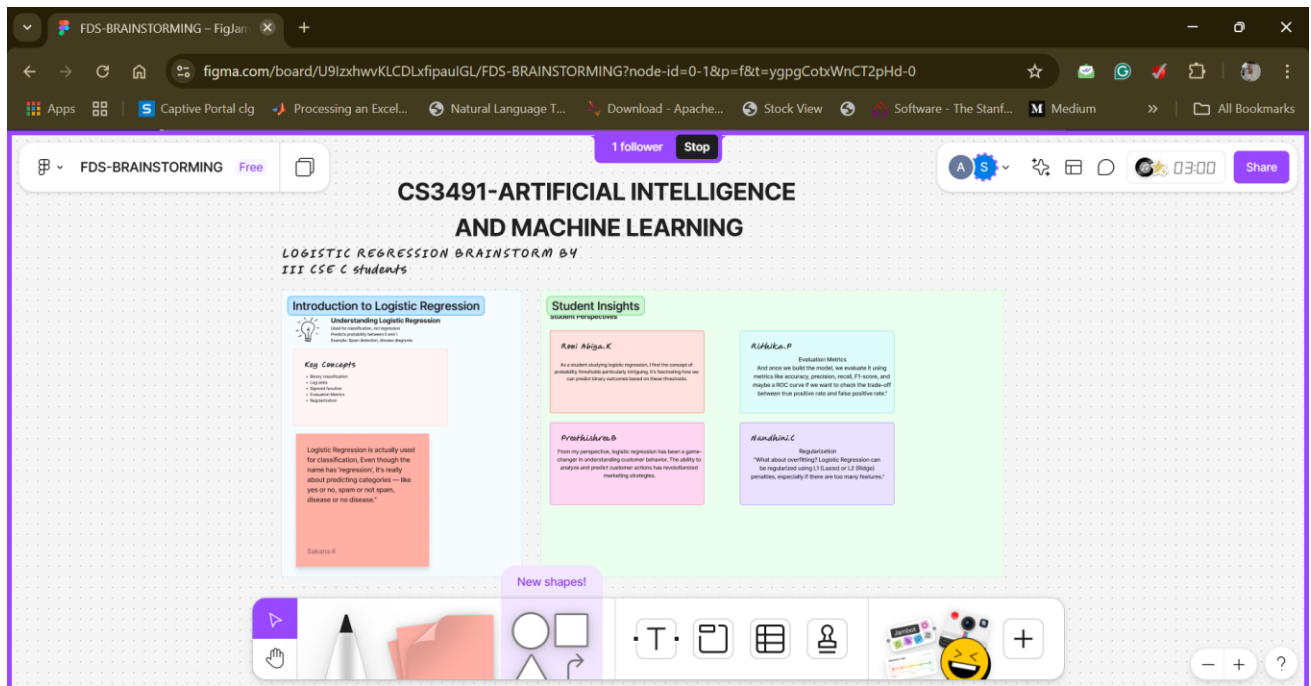


Figure 3. Fig Jam board design for the course CS3491-Artificial Intelligence and Machine Learning

S.NO	Academic Year	Course Code-Course Name	Year of study & No. of. Students	Faculty Name
1	2022-2023	CS3491-Artificial Intelligence and Machine Learning	III CSE C – 65	Ms.N.Indumathi

Table 3. Details of the Students brainstormed using FigJam