PRASAD V. POTLURI
SIDDHARTHA INSTITUTE OF TECHNOLOGY
Vijayawada

Department of CSE (ARTIFICIAL INTELLIGENCE and MACHINE LEARNING) & Department of CSE (DATA SCIENCE)

WORKSHOP SUMMARY REPORT

Name of the Event	:	Workshop on "Data Structures"
Event Type	:	Work Shop
Date	:	06-08-2023 to 15-08-2023
Venue	:	Room No. : 113
Resource Persons Details	:	**Ms. Armadhaa R**
		Sr. Technical Trainer
		BYTS, Hyderabad
Topics Covered	:	Overview of Storage class and recursion, overview of DSA and time, space complexity, Stack, Trees, Graphs.
Amount Spent	:	
Amount Collected from Students	:	**NIL**
Target Audience	:	**Students** (II B.Tech CSE(AI&ML) and II B. Tech CSE (Data Science) and **Faculty**
No. of Participants	:	128

Work Shop Schedule

Eight Days Workshop on

Problem Solving with Data Structures

Dates: 07-08-2023 to 14-08-2023

Program Session Wise Schedule:

Time	Session Details
9:00AM to 10.30AM	Session-1
10.30 AM to 10.45 AM	Break
10.45 AM to 12.30 PM	Session-2
12.30 PM to 1.30 PM	Lunch Break
1.30 PM to 3.30 PM	Session-3
3.30 PM to 3.45 PM	Break
3.45 PM to 5.00 PM	Session-4

Day Wise Schedule:

Date & Day	Time	Topics to be covered
07-08-23 Monday	9:00AM to 5.00 PM	Overview of Storage class and recursion Overview of DSA and time, space complexity

08-08-23 Tuesday	9:00AM to 5.00 PM	Stack - Implementation of Stack data structure using Array Queue -Implementation of Queue using two Stacks - Implementation of Queue using one stack - Sliding Window Maximum - Implement Stack using Queues - Number of Students Unable to Eat Lunch - Time Needed to Buy Tickets - Number of Recent Calls
09-08-23 Wednesday	9:00AM to 5.00 PM	Stack - Exclusive Time of Functions - Valid parantheses - Rotten oranges - Next greater element -II - Next smaller element - Remove duplicate letters - Largest rectangular histogram
10-08-23 Thursday	9:00AM to 5.00 PM	Trees - Intro to trees - dfs, bfs - DFS - with recursion and without recurssion- Binary - DFS - with recurssion and without recurssion- Binary - DFS - with recurssion and without recurssion- Binary - BFS - Binary Tree Level Order Traversal - Level order by level
11-08-23 Friday	9:00AM to 5.00 PM	Trees -Zigzag traversal - Left view - Right view - Count number of nodes in BT - Boundary traversal - Height of a BT

		- Check if BT is balanced or not
12-08-23 Saturday	9:00AM to 5.00 PM	Trees -Sum of all nodes in BT - Sum from root to all leaf nodes - Diameter of a BT - Check node is present in BT - Converting the BT to its mirror - Invert tree - Check if given two trees are same - Check if given two trees are mirror of each other - Symmetric tree - Possible number of tree generation - labeled and unlabeled
13-08-23 Sunday	9:00AM to 5.00 PM	Tree - Vertical order traversal - Find preorder from the given inorder and postorder - Find postorder given inorder and preoder - Kth smallest element in a given BST
14-08-2023 Monday	9:00AM to 5.00 PM	Graphs - Intro to graphs - dfs, bfs -Cloning LL and Graphs -Flattening Graph -Cheapest Flights Within K Stops -WordLadder- I -WordLadder- II -Detect cycle in directed graph -Detect cycle in undirected graph -Number of Islands

PARTICIPANTS DETAILS

S.No	Roll Number	Name of the student
1	22501A4401	AAISHA SULTANA GUDURU
2	22501A4402	AKUTHOTA SHREYA
3	22501A4403	ANDRAJU KATYAYINI
4	22501A4404	ATMAKURI LAHARI
5	22501A4405	BALUSU SUBHODH KUMAR
6	22501A4406	BAMMIDI SRUTHI
7	22501A4407	BATTULA KRISHNA CHAITANYA
8	22501A4408	BURADA PUJITHA
9	22501A4409	BUSI AJAY BABU
10	22501A4410	CHIGURUPATI SRIBHANU
11	22501A4411	DANTHANALA GOWRI SHANKAR
12	22501A4412	DUNNA SUSHANTH TEJA
13	22501A4413	GANDHAM RACHANA
14	22501A4414	GODAVARTHY LAKSHMI DEVI
15	22501A4415	GOLLAPALLI HARSHA VARDHAN
16	22501A4416	GONDI MAHIMA CHOWDARY
17	22501A4417	GORRELA CHANDU KUMAR
19	22501A4419	ITTA YASWANTH YUVARAJ
20	22501A4420	JEEBULA THANUSHA LAHARI
21	22501A4421	KAJA GOWTHAM CHOWDARY
22	22501A4422	KANAMARLAPUDI VENKATA NAGA KOUSHIK
23	22501A4423	KANAPARTHI SESHA SAI SIVANI
24	22501A4424	KARIMI MANIKANTA
25	22501A4425	KATTA JATADHARA SAI
26	22501A4427	KODURU MADHU LATHA
27	22501A4428	KOLLI BALARAMA KRISHNA REDDY
28	22501A4429	KOMMAVARAPU POUSHYA SRI
29	22501A4430	KOMMU VIJAY KUMAR
30	22501A4431	KONDAMUDI NANDINI
31	22501A4432	KONKALA SANVITHA
32	22501A4433	KOPPOLU CHAMINI
33	22501A4434	KUNCHALA NITHIN KUMAR
34	22501A4435	KURADA SRINIVASA RAHUL
35	22501A4436	KUSAM UDAY SRINIVAS
36	22501A4437	LANKIREDDY M S K REDDY
37	22501A4439	MOHAMMAD NAYEEMUDDIN
38	22501A4440	MOTURU RESHMI
39	22501A4441	MUDIGONDA NAGA BHANUTEJA SHARMA
40	22501A4442	NAGOTHI NITHIN SIMHA SAI MANIKANTA
41	22501A4443	PALLA KEERTHANA
42	22501A4444	PALLE KOWSHIK PAUL
43	22501A4445	PAMULAPATI RAHUL KOWSHIK REDDY
44	22501A4446	PANGULURI LALITH CHANDRA

45	22501A4447	PARASARAM NAVYA SRI
46	22501A4448	PIDIKITI SARVANI
47	22501A4449	PILLI NAGA VEERENDRA
48	22501A4450	PONNAGANTI SRAVANI
49	22501A4451	POTHARLANKA LEELA RAGHU RAM
50	22501A4452	PULI PRABHAS REDDY
51	22501A4453	RAPIREDDY MANAS SAI
52	22501A4454	RAVI DIVYA TEJA SREE
53	22501A4455	SHAIK HUSNA BANO
54	22501A4456	SHAIK MOHIDDHIN
55	22501A4457	SHAIK SALMAN
56	22501A4458	SHYAM VENKATA RAMA KRISHNA DUBA
57	22501A4459	SUJAYA RAGHAVI PINAPALA
58	22501A4460	SURAPANENI DINESH BABU
59	22501A4461	TELANAKULA SIVA RAMA VENKATAKRISHNAKOUSHIK
60	22501A4462	THOTA PRASANNA KUMAR
61	22501A4463	UDDANTI LAKSHMI PRASANNA
62	22501A4464	VALLURI VENKATRAM
63	22501A4465	VAVILAPALLI SIVA KUMAR
64	22501A4466	YERUVA TANOOJ REDDY

S.No	Roll Number	Name of the student
1	22501A4201	AKSHITHA PONNA
2	22501A4202	ALAPATI NANDINI
3	22501A4203	ANNAM ELISHA RAJ
4	22501A4204	AREPALLI LASYA SREE
5	22501A4205	BEZAWADA SHARON
6	22501A4206	BHUPATHI SRIKANTH
7	22501A4207	BINGINAPALLI SADHIK
8	22501A4208	BODUBOINA SUSHMA
9	22501A4209	BOJANKI SNEHA VENKATA PALLAVI
10	22501A4210	CHIMIRALA SIVA NAGA SAI MIDHILA
11	22501A4211	DIDDA PRAVALLIKA
12	22501A4212	DODDAPANENI VARSHINI
13	22501A4213	DONKADI YASWANTH KUMAR
14	22501A4214	GANDHAM NAGA AKSHITA
15	22501A4215	GODE PAVANI
16	22501A4216	GORRE JAYA SAI
17	22501A4217	INDUKURI MANISH VARMA
18	22501A4218	JAKKAMSETTI MADHAVAN
19	22501A4219	JASTI LATHA SRI
20	22501A4220	JUVVANAPUDI STALIUM ANDREW PRINCE
21	22501A4221	KAGITHA KOWSHIK
22	22501A4222	KAJA NAGA RUSHI

23	22501A4223	KALAGARA JAYA SIREESHA
24	22501A4224	KANAKAMEDALA LAHARI
25	22501A4225	KANCHARLA RAJA
26	22501A4226	KANDULA CHANDRA SEKHAR
27	22501A4227	KANDURI RAMYA PUJITHA
28	22501A4228	KARUMANCHI TONY SUSAN
29	22501A4229	KONETI AMARESH
30	22501A4230	MADIRAJU SRI RANGA SAI
31	22501A4231	MAHAMMAD NOWROZ
32	22501A4232	MAKAM NAGA VARDHAN
33	22501A4233	MAKARLA NAGA VENKATA SAI DARA YASHWANTH
34	22501A4234	MERUGU BHAVANA
35	22501A4235	MOHAMMAD ALTHAF NAWAZ
36	22501A4236	MUDIGONDA MANOGNA
37	22501A4237	MUSUGU DHAKSHESH RAM KIRAN
38	22501A4238	NAGABOYINA MAHESWARI
39	22501A4239	NALAMOTHU VENKATA NARENDRA
40	22501A4240	NALLURI DURGESH CHOWDARY
41	22501A4241	NUKALA RISHITA NAGA SAI
42	22501A4242	PANCHADARLA GOPI
43	22501A4243	PANIDAPU REVANTH KUMAR
44	22501A4244	PARUCHURI SAI CHANDRAKANTH
45	22501A4245	PASUPULETI KRISHNA TEJESH
46	22501A4246	PERUMALLA ANJANA MANOGNA
47	22501A4248	POLUKONDA SUBHASH CHANDRA
48	22501A4249	PRISCILLA BENEDICT
49	22501A4250	PULAVARTHY SRI MAHIMA
50	22501A4251	RAMAVATH MANTHRU SWAMYI NAIK
51	22501A4252	RAMINENI VENNELA SAI
52	22501A4253	RAVURI NARENDRA BABU
53	22501A4254	SALI SINDHU SRI
54	22501A4255	SARRAJU VENKATA NARASIMHA MANOJ
55	22501A4256	SATHI GEETHA LAVANYA
56	22501A4257	SATYAVOLU SNATHIKA
57	22501A4258	SHAIK FARHAT FATHIMA
58	22501A4259	SHAIK HASHMI FARHEEN
59	22501A4260	SHAIK NAGOOR VALI
60	22501A4261	SHAIK SAMEERA
61	22501A4262	TALASILA MUNISWAR
62	22501A4263	TERLI HEMANTH
63	22501A4264	THOTAKURA SRI VENKATA SURYA MANIKANTA
64	22501A4265	YARLAGADDA SREE SURYA
65	22501A4266	YERNENI SREE HASA

EVENT BROCHURE

A Ten Days Workshop on
Problem Solving with Data Structures

Resource Person

Ms. Armadhaa R

Sr. Technical Trainer

BYTS, Hyderabad

Dates: 06-08-2023 to 15-08-2023

Organised By

Department of CSE(Data Science)

EVENT SCREENSHOTS

Vijayawada, Andhra Pradesh, India
520007, Chalasani Nagar, Kanuru, Vijayawada, Andhra Pradesh 520007, India
Lat 16.486789°
Long 80.69385°
07/08/23 11:09 AM GMT +05:30

Vijayawada, Andhra Pradesh, India
FMQV+6MH, Chalasani Nagar, Kanuru, Vijayawada, Andhra Pradesh 520007, India
Lat 16.487786°
Long 80.694043°
07/08/23 11:08 AM GMT +05:30

Vijayawada, Andhra Pradesh, India
520007, Chalasani Nagar, Kanuru, Vijayawada, Andhra Pradesh 520007, India
Lat 16.486714°
Long 80.6938°
09/08/23 09:48 AM GMT +05:30
Note : PVPSIT Captured by GPS Map Camera

Vijayawada, Andhra Pradesh, India
520007, Chalasani Nagar, Kanuru, Vijayawada, Andhra Pradesh 520007, India
Lat 16.486714°
Long 80.6938°
09/08/23 09:48 AM GMT +05:30
Note : PVPSIT Captured by GPS Map Camera

Vijayawada, Andhra Pradesh, India
520007, Chalasani Nagar, Kanuru, Vijayawada, Andhra Pradesh 520007, India
Lat 16.486752°
Long 80.693883°
08/08/23 03:02 PM GMT +05:30
Note : PVPSIT Captured by GPS Map Camera

Vijayawada, Andhra Pradesh, India
520007, Chalasani Nagar, Kanuru, Vijayawada, Andhra Pradesh 520007, India
Lat 16.486772°
Long 80.693888°
08/08/23 03:01 PM GMT +05:30
Note : PVPSIT Captured by GPS Map Camera

Vijayawada, Andhra Pradesh, India
FMQV+6MH, Chalasani Nagar, Kanuru, Vijayawada, Andhra Pradesh 520007, India
Lat 16.487756°
Long 80.694132°
08/08/23 09:44 AM GMT +05:30
Note : PVPSIT Captured by GPS Map Camera

Vijayawada, Andhra Pradesh, India
520007, Chalasani Nagar, Kanuru, Vijayawada, Andhra Pradesh 520007, India
Lat 16.486715°
Long 80.693713°
09/08/23 09:46 AM GMT +05:30
Note : PVPSIT Captured by GPS Map Camera

FACULTY PARTICIPATED

S.NO.	NAME OF THE FACULTY	Designation
1	Dr. B. Janaki Ramaiah	Professor
2	Mr. Ch. Naresh	Asst. Professor
3	Ms. P. Hema Venkata Ramana	Asst. Professor
4	Ms. Padmaja	Asst. Professor
5	Ms. P. Naga Mani	Asst. Professor
6	Ms. P. Sujatha	Asst. Professor
7	Mr. T. Anil	Programmer

(P. Naga Mani)   **(Dr. B. Janakiramaiah)**
Workshop Coordinator   **Head of the Department**
CSE(AI&ML) and CSE(Data Science)   **CSE(AI&ML) and CSE(Data Science)**