CIRCULAR dated 22nd Apr, 2023

All the students of **2nd and 3rd year** of **Artificial Intelligence and Machine Learning** department are informed to attend the following **Training programme on 27th Apr, 2023, 9:30 am**. The following resource person will be delivering you the eminent talks on the below mentioned topic.

Resource Team: **QSpiders.**

Topic: **A training on Data Structures.**

Everyone's presence & co-operation in this regard is highly expected.

22/04/2023

HOD Sign. & Date

(Dept. of AIML)

Head of the Department
Dept. of Artificial Intelligence & Machine Learning
Alva's Institute of Engineering & Technology
Shobhavana Campus, Mijar
Moodubidire 574 225, D.K. Karnataka, India

Cc to:

All Class Rooms

Notice Board

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

(Unit of Alva's Education Foundation (R), Moodbidri)
Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi.
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A+, Accredited by NAAC & NBA (ECE & CSE)
Shobhavana Campus, MIJAR-574225, Moodbidri, D.K., Karnataka
Ph: 08258-262725; Mob:722262724,7026262725,mail:principalaiet08@gmail.com

Department of Artificial Intelligence and Machine Learning

Resource Person - :Qspiders

Topic: Data Structures

Objective:

The objective of conducting training was to provide students with a comprehensive understanding of various data structures, such as arrays, linked lists, stacks, queues, trees, graphs, and hash tables. The training focuses on developing students' proficiency in implementing these data structures using programming languages, honing their problem-solving skills through algorithmic analysis, and preparing them for technical interviews. Additionally, the training aims to equip students with the ability to analyze time and space complexities, optimize algorithms, and apply data structures in real-world scenarios. By achieving these objectives, students will be well prepaped for solving any challending questions in there placements.

Topics covered:

1)Pointers in C – Using pointers with Arrays, Strings, Functions, Structures, Double Pointers with example Programs.

2)Sorting and Searching – Bubble Sort, Selection Sort, Linear Search, Binary Search, Hashing. Programs.

3)Stack – Implementation, Applications of Stack – Postfix Expressions Evaluation, Converting from Infix to Postfix and Prefix. Example Programs.

4)Queue – Simple Queue, Circular Queue, Double Ended Queue, Applications of Queue,Example Programs.

5)Linked List – Singly Linked List, Doubly Linked List, Circular Linked List, Operations and Applications, Example Programs.

6)Binary Tree – Insertion, Deletion, Traversal, Threaded Binary Tree. Applications. Example Programs.

7)Trie Data Structure and its Operations; Segment Tree and its Operations, Splay Tree and its operations, B Tree and its operations, Red Black tree and its operations.

Conclusion:

The conducted training on data structures aimed to provide students with a comprehensive understanding of various data structures, including arrays, linked lists, stacks, queues, trees, graphs, and hash tables. The training focused on developing students' proficiency in implementing these structures using programming languages and honing their problem-solving skills through algorithmic analysis. Additionally, the training prepared students for technical interviews by equipping them with the ability to analyze time and space complexities, optimize algorithms, and apply data structures in real-world scenarios. By covering topics such as pointers, sorting and searching, stack and queue implementations, linked lists, binary trees, and advanced structures like tries, segment trees, splay

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trees, B trees, and red-black trees, the training ensured that students were well-prepared to tackle challenging placement questions.
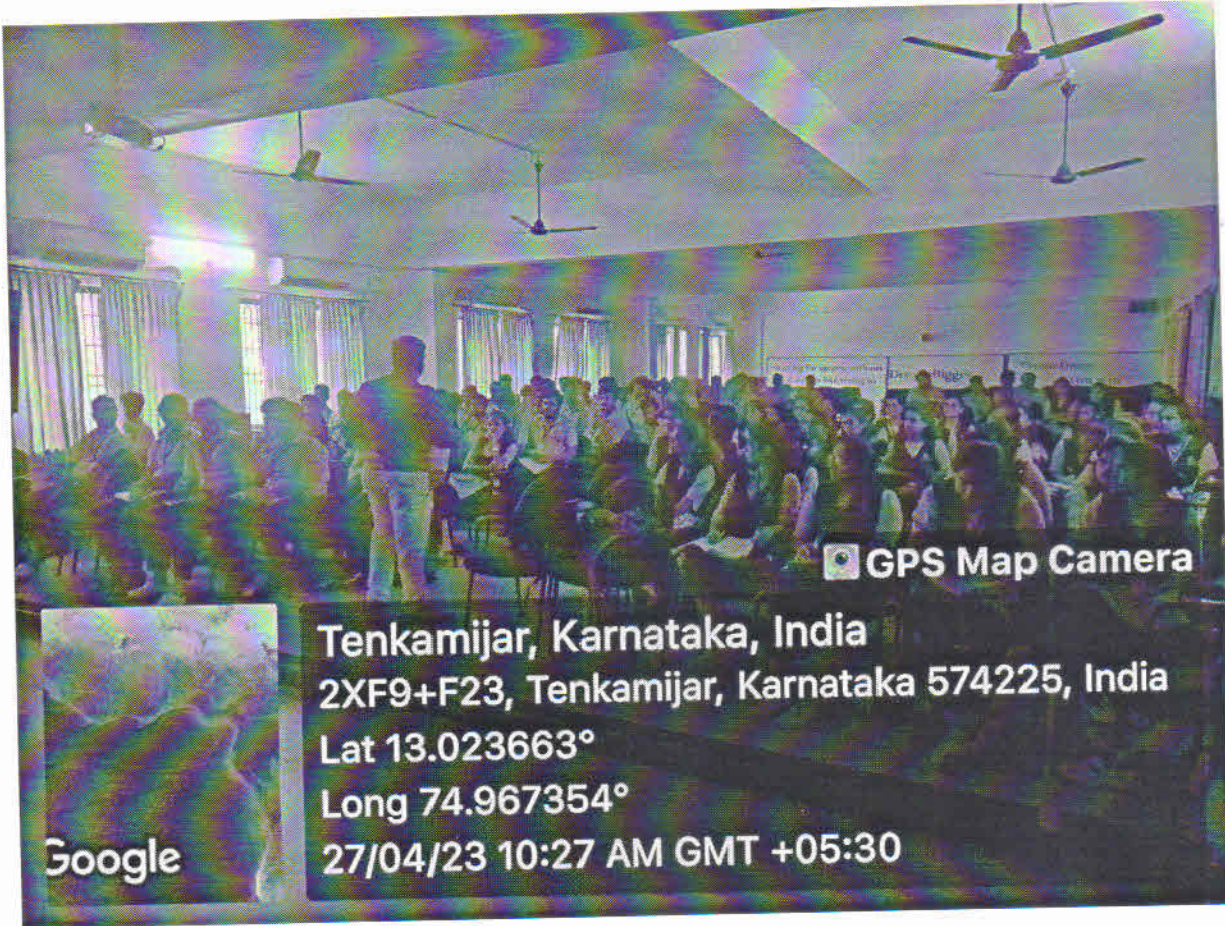
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Head of the Department
Dept. of Artificial Intelligence & Machine Learning
Alva's Institute of Engineering and Technology
Shobhavana Campus, Mijar
Moodubidire 574 225, D.K. Karnataka, India

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF AIRTIFICIAL INTELLIGENCE & MACHINE LEARNING

Deep Learning on Data Structures by Qspiders

USN	NAME	17/4/23		18/4/23		19/4/23		20/4/23		21/4/23		22/4/23	
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Deep Learning on Data Structures by Qspiders

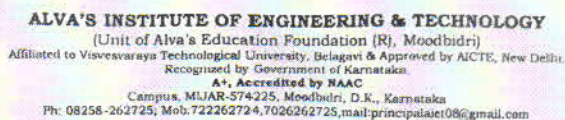| USN	NAME	24/4/23		25/4/23		26/5/23		27/5/23		28/5/23		29/5/23	
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