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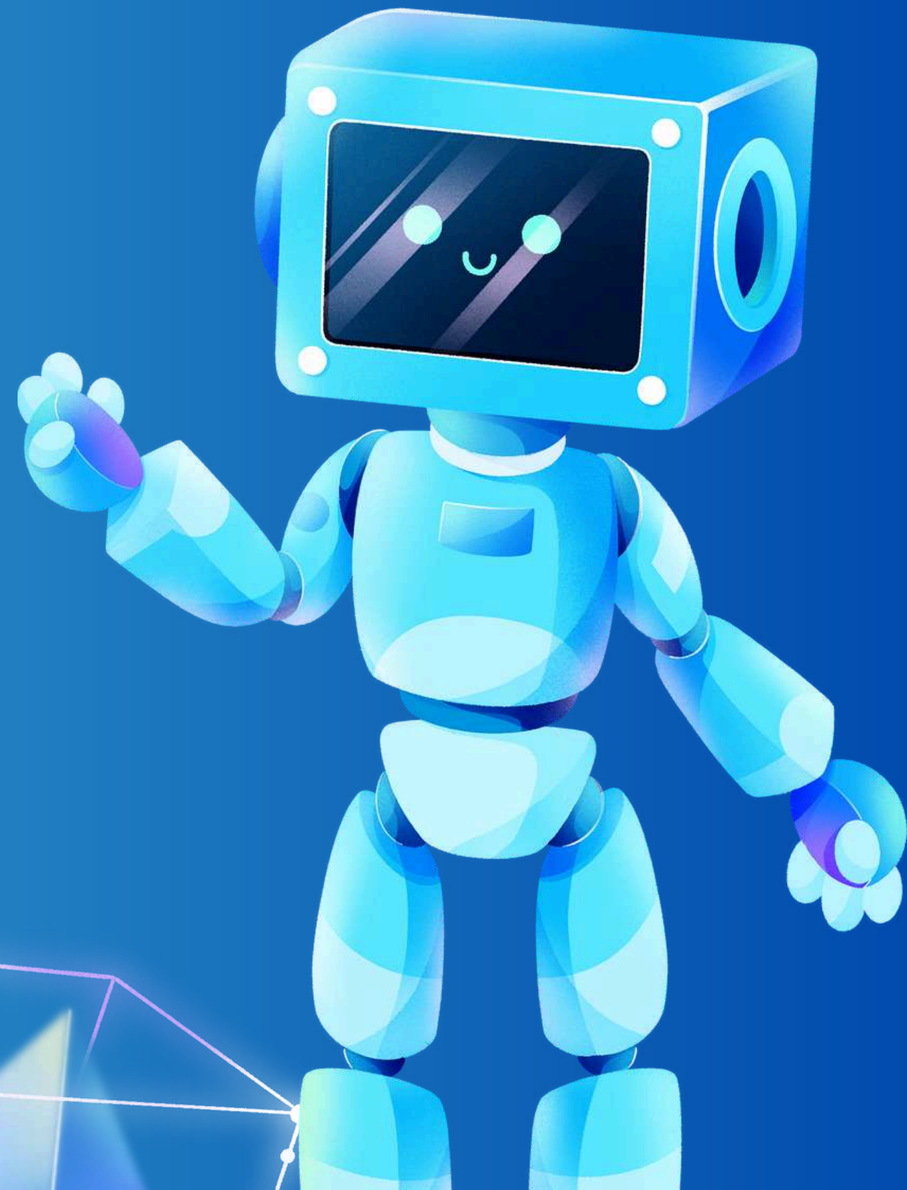
TECHNOLOGIES

COMPLETE PLACEMENT PREPARATION BATCH WITH INTERVIEW PREPARATION



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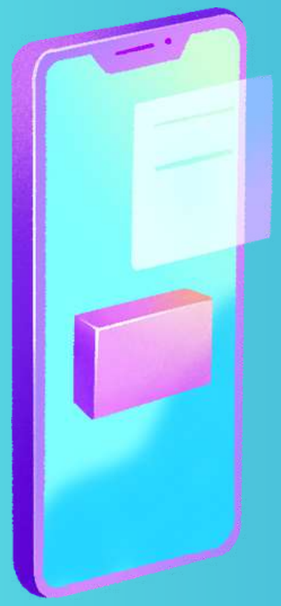
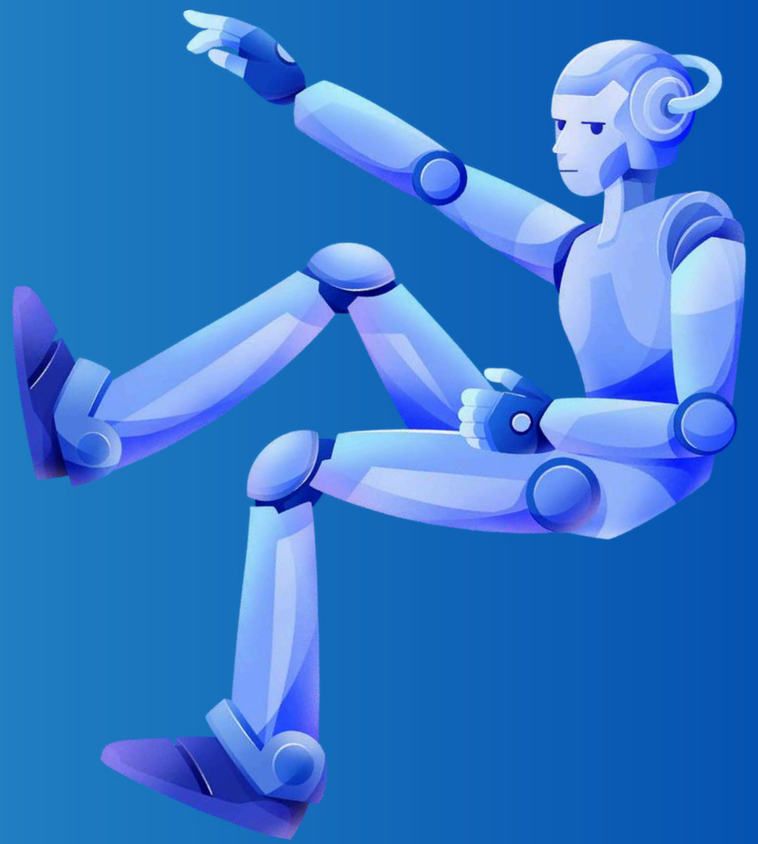


- Computer Fundamentals
- Programming Fundamentals
- Operating System
- Computer Networks
- Standard Coding Conventions
- C Language
- Advanced C Language
- C++ Language
- Advanced C++ Language
- Java Language
- Advanced Java Language



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TECHNOLOGIES

TABLE OF CONTENTS

- DBMS
- SQL
- Basics of Linux
- Project Development
- Basics of Git and GitHub
- Intro to Competative Programing Platform
- Interview Preparation
- Resume Building
- Placement Assistance
- Certificate of Completion

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TECHNOLOGIES

COMPUTER FUNDAMENTALS

- Hardware and Software
- Types of Softwares
  - System Software, Application Software
- Standard Input Output Devices
- Storage Devices
  - HDD, SSD
- Types of Memory
- Microprocessor
- Motherboard
- Processing Unit
- Graphical Processing Unit
- Types of Registers

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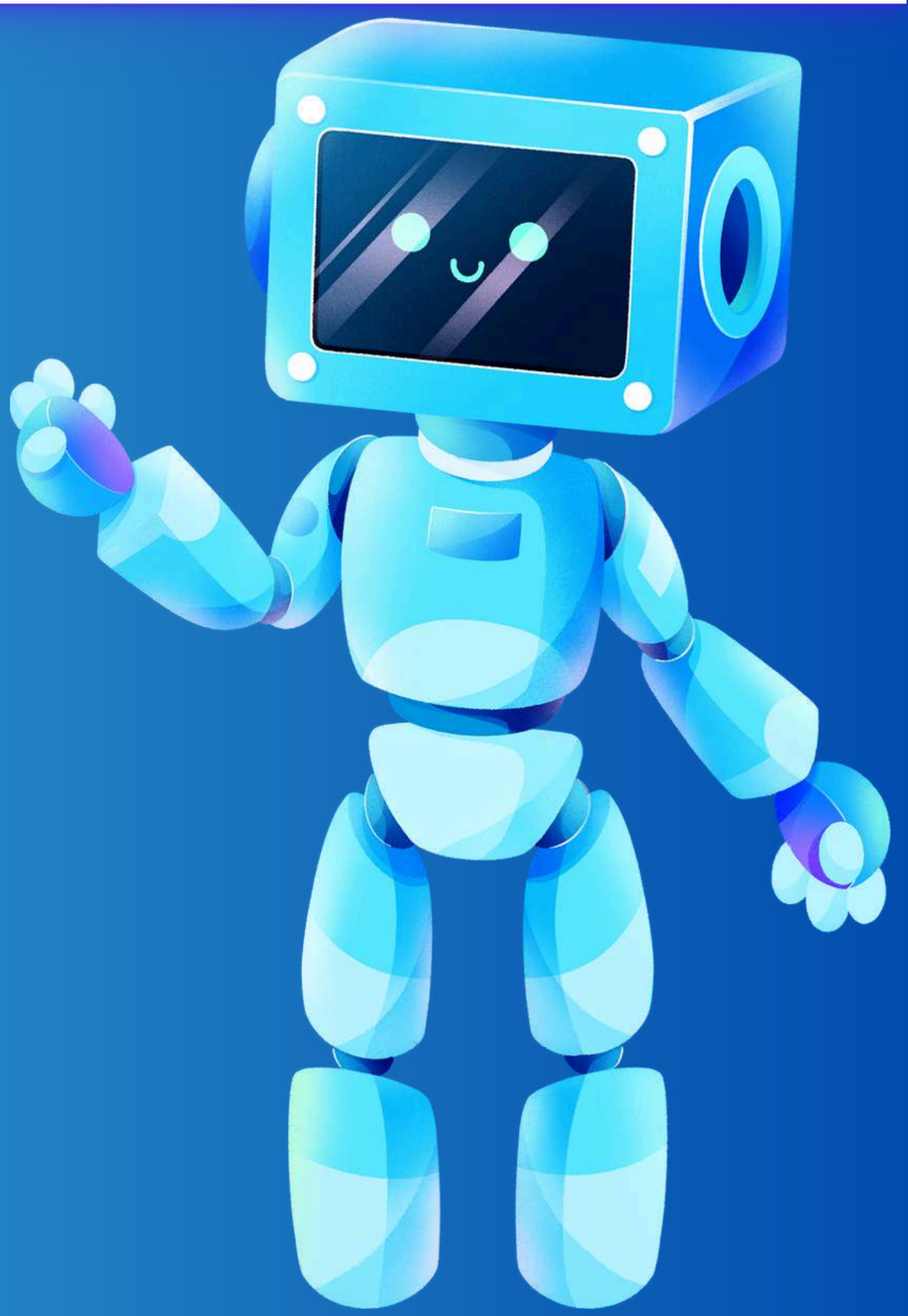
PROGRAMMING FUNDAMENTALS

- What is Program ?
- Types of Programming Languages
- Program Design Methods
- Assembler and Interpreter
- Phases of Compilation
- x86 Toolchain
- How to Compiler Program.
- Flow of Program
- Different Sections of Program
- Setting of Programming Environment
- ANSI



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C LANGUAGE

BASIC AND ADVANCED

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BASICS OF C LANGUAGE

- Programming Languages
  - Low level
  - High level
- Design methods
  - Top Down
  - Bottom Up
  - Modular
- Translator
  - Assembler
  - Compiler
  - Interpreter
- History of C language

- Characteristics of C
- Structure of C Program
- Element of C
  - Character set
  - Escape sequences
  - Keywords
  - Identifiers
  - Data types
  - Constants
  - Variables
  - Comments
- Input and Output in C

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- Operators
  - Arithmetic
  - Assignment
  - Relational
  - Logical
  - Conditional
  - Sizeof
- Type Conversion
- Control Statement
  - if ... else
    - If
    - If ....else
    - Nested if else
    - Else if ladder
  - Loops
    - For loop
    - While loop
    - Do-while loop
    - Nesting of loops
    - Infinite loops
  - Break
  - Continue
  - Goto
  - Switch

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ADVANCED C LANGUAGE

- Functions
  - Function Declaration
  - Function Definition
  - Function Call
  - Function Prototype
  - Function Arguments
  - Return Statement
  - Types of Functions
    - Function with No arguments and No return value
    - Function with No arguments but return value
    - Function with Arguments and No return value
    - Function with Arguments and return value

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TECHNOLOGIES

- Main() Function
- Recursion
  - Tower of Hanoi
  - Adv and Disadv of recursion
- Array
  - 1D Array
  - 2D Array
- Pointers
  - Wild Pointer
  - Dangling Pointer
  - Null Pointer
  - Pointer Arithmetic

- Strings
  - strlen()
  - strcmp()
  - strcat()
  - strcpy()
  - sprint()
  - sscanf()
- Structure
- Union
- malloc(), calloc(), realloc(), free()
- Typedef
- Files
- C Preprocessors

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C++ LANGUAGE

BASIC AND ADVANCED

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BASICS OF C++ LANGUAGE

- History of C++
- Characteristics of C++
- C vs C++
- Variables
- Constants
- Data Types
- Operators
- Input / Output
- Control Statements
- Functions
- Arrays
- Pointer

- Strings
- Structures
- Union
- Enumeration
- Dynamic memory allocation

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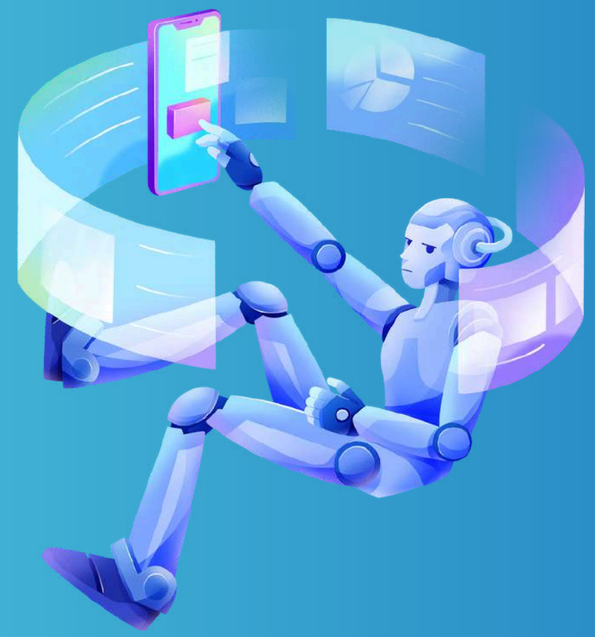
ADVANCED C++ LANGUAGE

- Object Oriented Programming in C++
- Classes and Objects
- Access Specifiers
  - Public
  - Private
  - Protected
- Encapsulation
- Inheritance
  - Single Level Inheritance
  - Multi Level Inheritance
  - Multiple Inheritance
  - Hybird Inheritance
  - Hierarchical Inheritance
- Abstraction
- Polymorphism
  - Compile Time Polymorphism
  - Run Time Polymorphism
- Interfaces & Abstract Classes
- Constructors & Type of Constructors
- Destructors
- Virtual Functions
- Standard Template Libraries
- Namespaces in C++



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JAVA LANGUAGE

BASIC AND ADVANCED

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BASICS OF JAVA LANGUAGE

- History of Java
- Characteristics of Java
- Keywords in Java
- Operators
- Input / Output
- Flow Control
- Loops
  - For Loop
  - While Loop
  - Infinite Loop
  - Nesting of Loop
- Functions / Methods

- Array
  - 1D Array
  - 2D Array
- Strings

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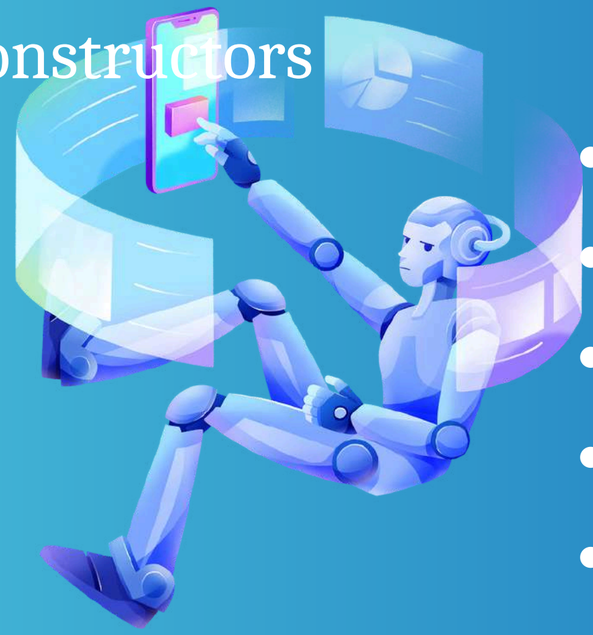
ADVANCED C++ LANGUAGE

- Object Oriented Programming in Java
- Classes and Objects
- Constructors types of Constructors
- Garbage Collection
- Access Specifiers
  - Public
  - Private
  - Protected
- Encapsulation
- Inheritance
- Type of Inheritance
- Abstraction



- Polymorphism
  - Compile Time Polymorphism
  - Run Time Polymorphism
- Methods in Java
- Method Overloading
- Method Overriding
- Interfaces in Java
- Dynamic Memory Allocation
- Packages in Java
- Exception Handling in Java
- Multithreading in Java
- Java Collections

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DBMS

- Data
- Information
- Database
- Database Management System
- Difference in File System and DBMS
- Advantages of DBMS
- Disadvantages of DBMS
- Table and Schema
- Transactions
- ACID properties

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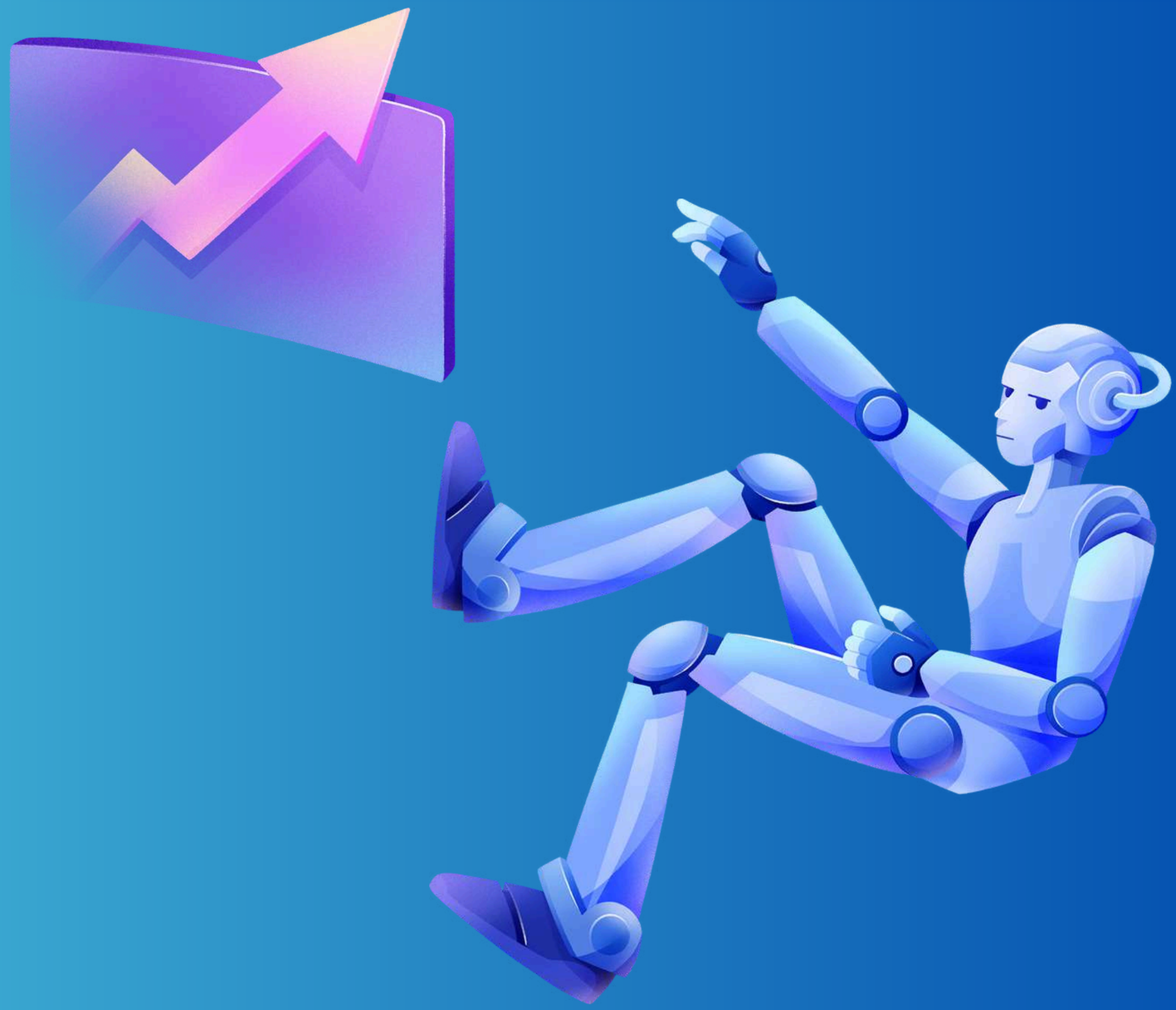
STRUCTURE QUERY LANGUAGE

- SQL Introduction
- Characteristics of SQL
- Advantages of SQL
- DDL
- DQL
- DML
- DCL
- TCL
- SQL Queries
- SQL Joins
- Normalization



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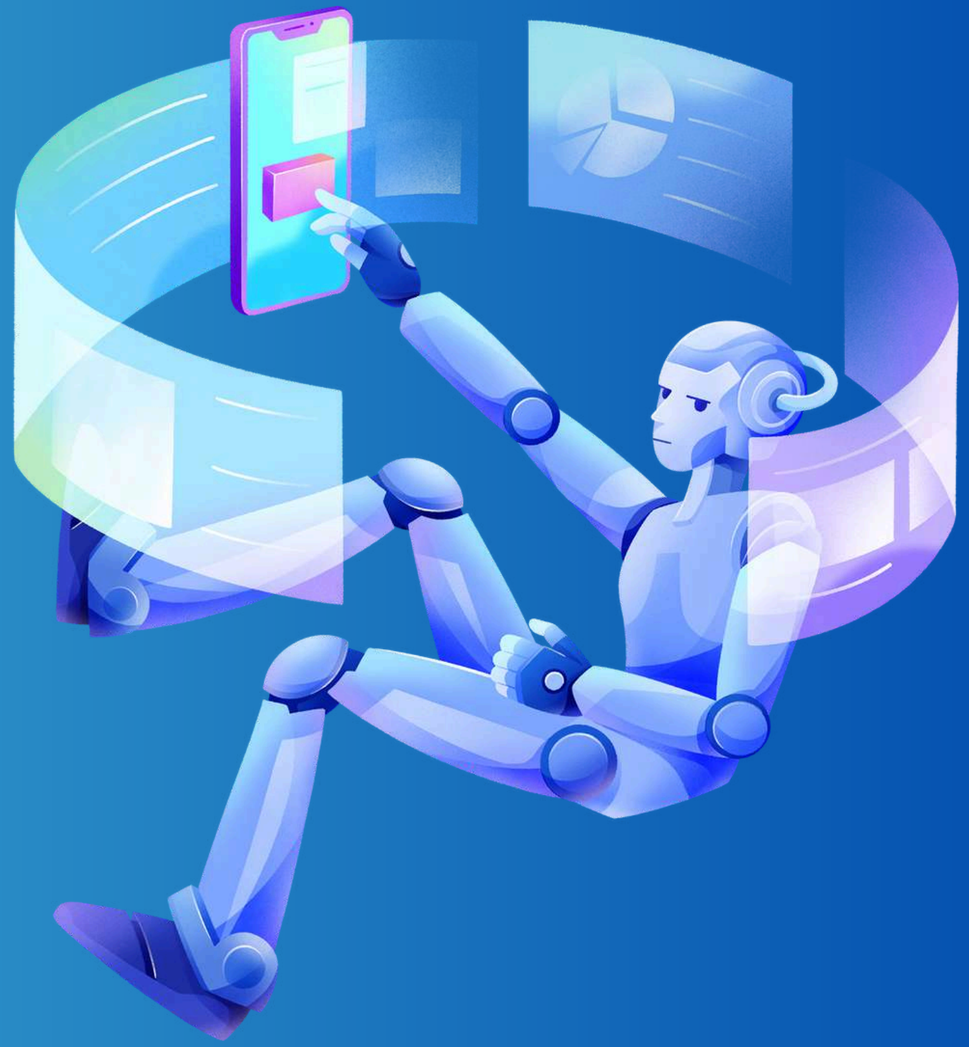
COMPUTER NETWORKING

- What is Computer Network
- Types of Network
  - LAN, MAN, WAN, PAN
- Network Topologies
  - Star, Mesh, Bus, Ring, Tree, Hybrid
- IP Addressing
- IPV4 and IPV6
- OSI Model
- TCP/IP Model
- DNS
- Public and Private Network
- Interview Questions



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BASICS OF LINUX

- What is Linux
- History of Linux & Unix
- Commonly used Linux Commands
  - pwd
  - cd
  - ls
  - mkdir
  - rmdir
  - cat
  - echo
  - touch
  - cp
  - mv
  - top
  - su - username
  - rm
  - clear
  - grep
  - find
  - history

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OPERATING SYSTEM

- What is OS ?
- Types of OS
- Function of OS
- Process
- Thread
- Deadlock
- Handling Deadlock
- Condition for Deadlock
- Booting
- Interview Questions asked in MNC

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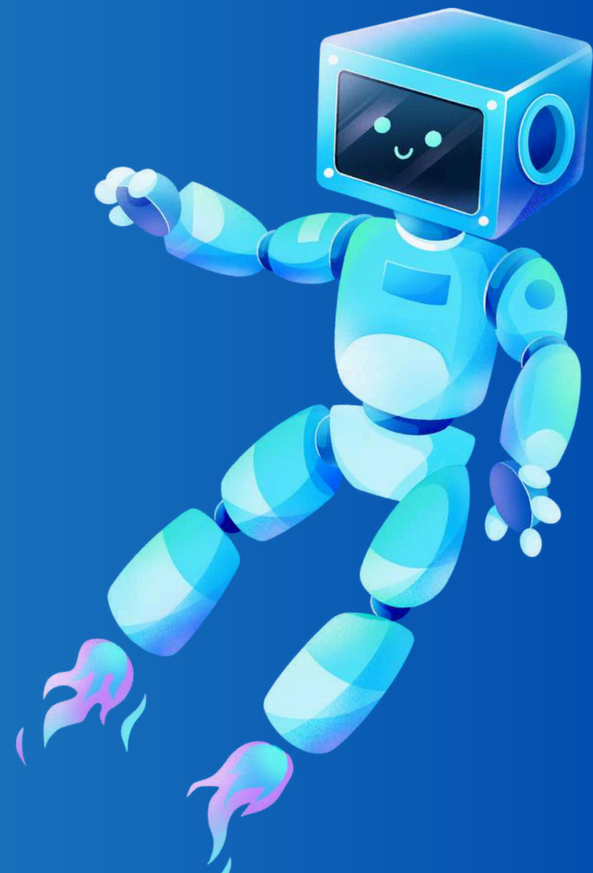
PROJECT DEVELOPMENT

INDUSTRIAL PROJECT DEVELOPMENT USING C++ AND MYSQL DATABASE



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BASICS OF GIT /GITHUB

- What is Git
- What is Github
- Creating Account
- Creating New Repository
- Pushing in the Repository
- Command to Push

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OVERVIEW OF COMPETITIVE CODING PLATFORM

HACKERRANK

CODECHEF

LEETCODE

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01 STANDARD INDUSTRIAL RESUME BUILDING

02 INTERVIEW PREPARATION

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03 PLACEMENT ASSISTANCE

04 CERTIFICATE OF COMPLETION

OUR TRADITION

01

Complete Placement Preparation

02

Complete Logic Building

03

Industrial Project & Resume, Interview Preparation

04

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THANK YOU!

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