

RAISETECH

JAVA FULL STACK

BUILD • INNOVATE • DEPLOY

From Frontend to Backend,
Build Complete Web Solutions

 96422 10326

 #304, 3rd floor, Nilagiri Block
Beside Metro station, Ameerpet, Hyderabad.



Raise Tech Talents Core and advanced Java course is aligned to Industry standards developed by leading Java Experts. This course aims to make you master all the Core and Advanced level skills in the Java and various technologies involved in the field of Java



Fullstack

COURSE DURATION
150 DAYS

SESSION HOURS
450 HOURS



KEY HIGHLIGHTS

- Institute backed by strong IIT alumina Team
- More than 10,000 + success stories created
- Partnered and serving 100+ clients right from the inception of the firm
- Parent company Quality Thought No #1 providing placements since 2010
- Experienced IT Architects, subject matter experts as advisory in the board
- Guaranteed Internship Opportunity (3 to 6Months) for every participant
- Backed by strong Internal human resource team enabling quick placements
- Special guidance to students to win jobs with highest packages



TRAINING HIGHLIGHTS

- | | |
|---|--|
| <ul style="list-style-type: none"> ➤ Industry ready course roaster designed by architects and subject matter experts ➤ Proven content, creating gateway to world of Job opportunities ➤ Practical & detailed approach, everyone can understand and perform to excel ➤ Subject matter experts as trainers ➤ Not just learning, Learn by doing methodology | <ul style="list-style-type: none"> ➤ Access to Instant recorded live Class videos shared ➤ Personalized attention and guidance to accelerate the learning ➤ Member access to private group to get instant doubt clarifications ➤ Guest lectures from leading MNC Companies |
|---|--|



Core Java

Master the Fundamentals. Build Strong Logic.



Basic Introduction of Java

- > Programming Language
- > Modules In Java
- > History of Java
- > Internal Architecture of JVM
- > Naming Conventions
- > Identifiers
- > Reserved Words
- > Data-types
- > Types of variables
- > var-arg method
- > Main method
- > System.out.println()
- > Command line arguments
- > Java Source File Structure
- > Types of Blocks in Java
- > Type casting in Java
- > Fully Qualified Name
- > Import Statements
- > Control-Statements
- > Arrays



OOPS

- > Class
- > Objects
- > Data Hiding
- > Abstraction
- > Encapsulation
- > Is-A relationship
- > Has-A relationship
- > Types of inheritance
- > Types of variables
- > Method Overloading
- > Method Overriding
- > System.out.println()
- > Method Hiding
- > Polymorphism
- > Constructors
- > This keyword
- > Super keyword
- > Interfaces
- > Abstract classes
- > Wrapper classes



Exception Handling

- > Exception vs Error
- > Types of Terminations
- > Exceptions Hierarchies
- > Try block
- > Catch block
- > Finally block
- > Types of Terminations
- > Throw statement
- > Throws statement



Java.io Package

- > File
- > File Writer
- > File Reader
- > Buffered Writer
- > Buffered Reader
- > Print Writer
- > Various ways to provide inputs



Collections

- > What is Collection?
- > List interface
- > Set Interface
- > Map interface
- > Types of cursors in Java



Multi-Threading

- > Thread vs Process
- > Multi-Tasking
- > Multi-Threading
- > Ways to start a thread in java
- > Setting and Getting name of a thread
- > Thread priority
- > Types of cursors in Java
- > Various methods to prevent a thread from execution
- > Daemon Thread
- > Synchronization

Oracle

Master Oracle Database with our comprehensive SQL & PL/SQL training. Build strong database skills for real-world applications.

a) SQL

- > Types of Data
- > Introduction to Oracle
- > Tables, DBMS, RDBMS
- > DDL commands
- > DML commands
- > DRL commands
- > DRL commands with where clause
- > TCL commands
- > DCL commands
- > Operators in SQL
- > Group by, Having and order by clause
- > Integrity constraints
- > Types of constraints
- > Joins
- > Sub Queries
- > Sequences
- > Synonyms
- > Pseudo columns
- > Indexes



Build a strong foundation in database management using SQL.

b) PL/SQL

- > Introduction to PL/SQL
- > Control statements in PL/SQL
- > Loops in PL/SQL
- > DML operations in PL/SQL
- > DRL operations on PL/SQL
- > Exception Handling
- > Cursors
- > Procedures
- > Functions
- > Packages
- > Triggers



Enhance your programming skills with PL/SQL for complete solutions.

Advanced JAVA

a) JDBC

- > Introduction to JDBC
- > JDBC Drivers Architectures
- > Files vs Database
- > Connection object
- > Types of Statement objects
- > Types ResultSet objects
- > Select query executions
- > Non-select query executions
- > Working with Date values
- > Working with LOB values
- > Database Metadata
- > ResultSet MetaData
- > Batch Processing
- > Transaction Management

b) Servlets

- > What is web application?
- > What is web resource program?
- > What is web container?
- > Sample web application creation
- > Types of url patterns
- > MIME Types
- > Types of Communications
- > Servlet Filters
- > Servlet Life cycle methods
- > ServletConfig object
- > ServletContext object
- > Stateless Behavior of web application
- > Session Tracking

c) JSP

- > Introduction to JSP
- > JSP life cycle
- > JSP Tags
- > JSP to Database communication
- > JSP to Java Bean communication
- > MIME Types
- > JSP implicit objects
- > JDBC Connection pooling
- > JSP MVC Architecture
- > Working with IDE's
- > Types of Communications

d) Servers

- > Tomcat Server
- > Web Logic Server



e) IDE's

- Eclipse
- NetBeans



g) SDLC

- What is SDLC
- Types of phases in SDLC



f) Real tools

- GIT/GITHUB
- Maven/Gradle
- Junit



h) Project

- Module 1
- Module 2

Java Framework •

Spring Boot

a) Introduction

- > Spring vs Spring Boot
- > Spring Modules overview
- > Spring MVC architecture
- > What is Spring Boot
- > Advantages of Spring Boot
- > Spring Boot Architecture
- > Spring Boot Application using Initializr
- > Spring Boot Application using STS IDE
- > Spring Boot Annotations
- > Properties file vs YAML file
- > Spring Boot starters
- > Spring MVC Application

Spring Data JPA

b) Spring Data JPA

- > Introduction
- > Features of spring data JPA
- > Working wiht H2 database
- > Working with MySQL database
- > Project Lombok
- > CRUD operations
- > Exception Handling in Spring Boot
- > RestTemplate
- > WebClient
- > Flyway Database Migration
- > Spring Boot Caching
- > Swagger
- > Spring Boot Actuators
- > Spring Security
- > Authentication
- > Authorization

Spring Web

- > Introduction to Spring web
- > Web Application Development
- > application.properties file
- > Web annotations
- > Spring Boot Thymeleaf
- > Spring Boot Thymeleaf to interact with H2 Database

Spring Micro-Services

a) Introduction

- > Monolithic Architecture
- > Micro service communication
- > Spring Cloud API Gateway
- > Hystrrix in microservices
- > Types of Statement objects
- > Zipkin and Sleuth
- > Micro Service Architecture
- > Creating micro services using spring boot
- > Service Registry (Eureka Server)
- > Loading Balancing using Ribbon
- > ResultSet MetaData
- > CloudConfig

b) IDE'S

- > Spring Tool Suit (STS)
- > IntelliJ

c) Embedded Servers

- > Tomcat, Jetty, Undertow

d) Embedded Databases

- > H2, HSQL, Derby

e) Tools

- > POST MAN

Web Development

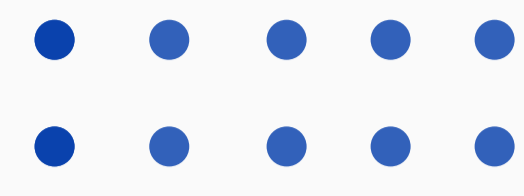
a) Introduction

- > What is HTML5?
- > Types of Search Engines?
- > What web page?
- > Comments in Java
- > HTML Basic Tags
- > HTML Colors
- > HTML Hyperlinks
- > HTML Tables
- > HTML forms
- > HTML datalist Tag
- > <iframe> tag
- > HTML Video
- > HTML Layouts
- > Types of Browsers?
- > What is Web site?
- > Simple HTML skeleton program
- > HTML5 Meta Tags
- > Phrase Tags in Html5
- > HTML Images
- > List in HTML
- > Block Elements vs Inline Elements
- > GET vs POST methodology
- > Frames
- > HTML Audio
- > Graphics in HTML

b) Editors

- > NotePad
- > NotePad++

CSS-3



a) Introduction

- > What is CSS?
- > Types of CSS?
- > CSS background property
- > CSS borders
- > CSS margins
- > CSS paddings
- > CSS ID selector
- > CSS Class selector
- > CSS Height and Width
- > CSS overflow property
- > CSS border-radius property
- > CSS box-shadow property
- > CSS float property
- > CSS list property
- > CSS tables
- > CSS display property
- > CSS transform property
- > CSS transition property
- > CSS position property



b) CSS Design Work

- > CSS Design 1
- > CSS Design 2
- > CSS Design 3



c) Editors

- > Sublime



b) Editor

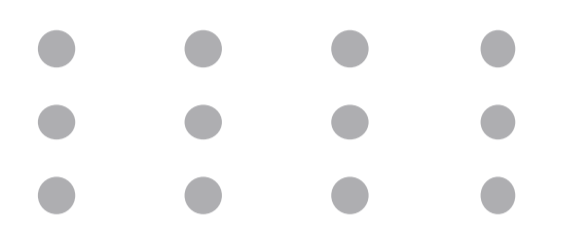
- > VSC (Visual Studio Code)



c) Task

- > Task 1
- > Task 2
- > Task 3

Bootstrap-4



a) Introduction

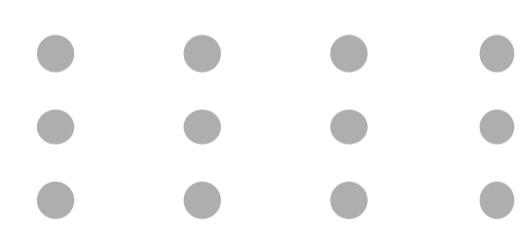
- > What is Bootstrap
- > Advantages of Bootstrap
- > Bootstrap buttons
- > Bootstrap alerts
- > Bootstrap badges
- > Bootstrap dropdown
- > Bootstrap grid system
- > Bootstrap navbar
- > Bootstrap tables
- > Bootstrap cards
- > Bootstrap forms
- > Bootstrap pagination
- > Bootstrap progress bar
- > Bootstrap carousel



b) Design

- > Designs 1
- > Designs 2
- > Designs 3

Java Script



a) Introduction

- > Introduction to JavaScript
- > Types of JavaScript
- > JavaScript variables
- > JavaScript strings
- > JavaScript operators
- > JavaScript validation
- > JavaScript loops
- > JavaScript arrays
- > JavaScript functions
- > JavaScript events
- > JavaScript form validation
- > JavaScript regular expression

React/ ReactJS

- 1 React Introduction
- 2 Advantages of React
- 3 JSX Introduction
- 4 Expressions in JSX
- 5 JSX elements
- 6 React virtual DOM
- 7 First application development in react
- 8 React project structure explanation
- 9 React Fragment
- 10 Components in React
- 11 Function component vs Class component
- 12 Props
- 13 State
- 14 Composing component
- 15 CSS in React
- 16 Type checking in props
- 17 ReactJS vs React Native
- 18 ReactJS vs AngularJS
- 19 Event Handling in React
- 20 Update state using event handling
- 21 Phases of components in react
- 22 Life cycle methods in react
- 23 Hooks introduction
- 24 Predefined hooks
- 25 Custom hooks
- 26 React Router
- 27 Lists in React
- 28 Key in React
- 29 Assets in React
- 30 Bootstrap in React
- 31 React Forms
- 32 Axios
- 33 ReactJS + NodeJS + MySQL database integration
- 34 React Redux

AWS – Amazon Web Services

- 1 Types of Applications
- 2 PC vs Server
- 3 Need of Cloud Infrastructure
- 4 What is Cloud Computing
- 5 What is AWS? And Why to choose AWS
- 6 How to create an account in AWS
- 7 What an Operating System and its types
- 8 Importance of Linux in Cloud Environment
- 9 How to create a Linux server in AWS
- 10 Putty vs Xshell
- 11 AWS EC2 Instance
- 12 Types of instances in AWS
- 13 AWS Tenancy
- 14 AWS Launch Template
- 15 AWS EBS volumes
- 16 Need of Elastic IP Address
- 17 AWS RDS service for JDBC Application?
- 18 How to deploy web application in AWS Elastic Bean Stalk
- 19 AWS S3 service
- 20 How to deploy spring boot application in AWS Cloud



(AI) Artificial Intelligence (AI) with open AI (Tools) & NLP & Data Structures & Algorithms



1. Applications of AI

- ▶ Applications of AI
- ▶ History of AI
- ▶ Types of AI
- ▶ Future of AI
- ▶ Type of Agents
 - A. Intelligent Agent
 - B. Agent Environment
 - C. Turning Test in AI



2. Problem Solving in AI

- ▶ Search Algorithm
- ▶ Uninformed Search Algorithm
- ▶ Informant Search
- ▶ Algorithm Hill Climbing Algorithm
- ▶ Mean End Analy



3. Adversarial Search

- ▶ Adversarial Search
- ▶ Minimax Algorithm
- ▶ Alpha-Bete Pruning



4. Knowledge Represent

- ▶ Knowledge based Agent
- ▶ Knowledge Representation
- ▶ Propositional Logic
- ▶ Rule of Inference
- ▶ First Order-logic



5. Uncertain Knowledge R

- ▶ Probabilistic Reasoning in AI
- ▶ Bayes Theorem in AI
- ▶ Bayesian Belief Network



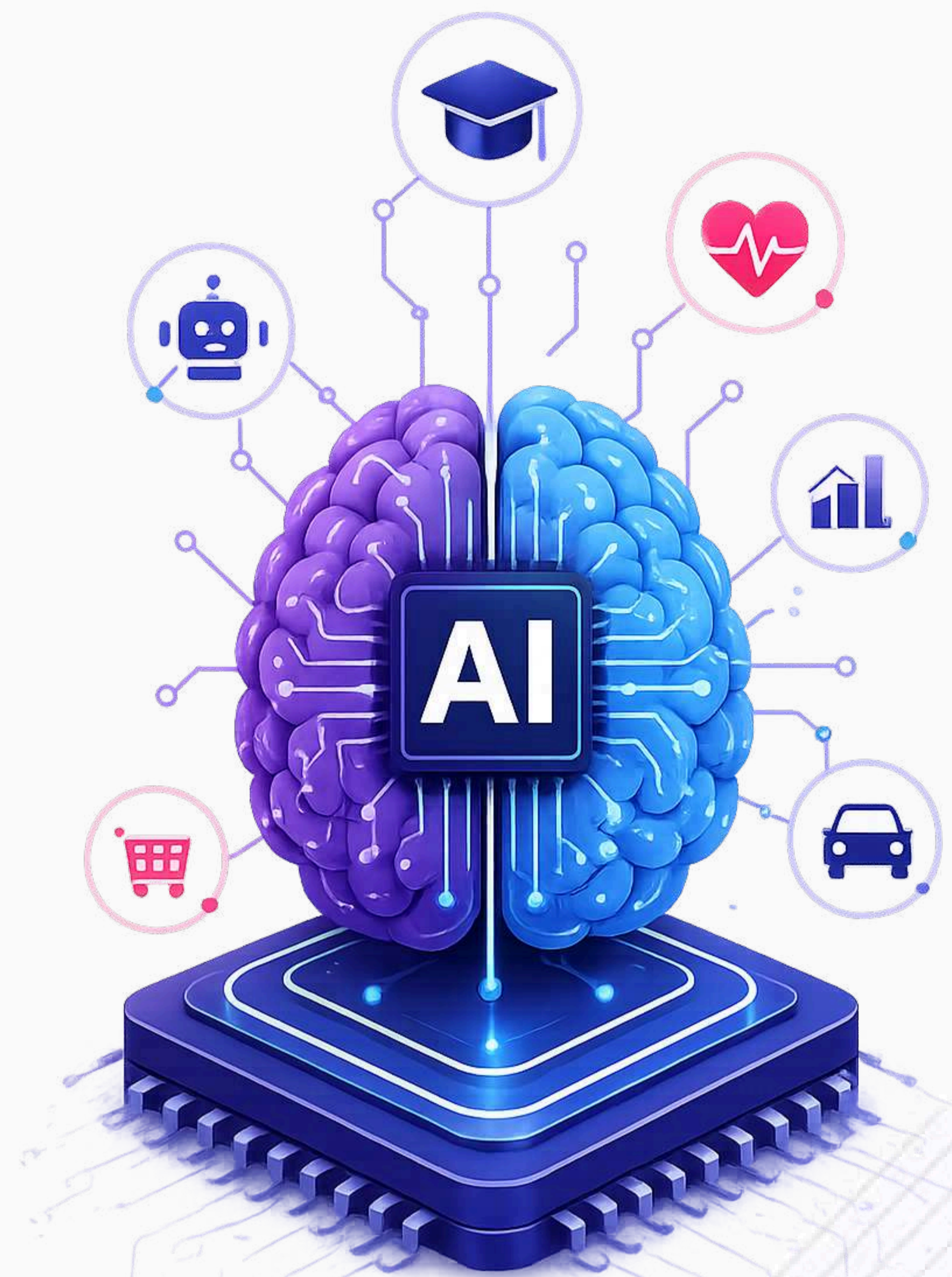
6. Unification in FOL

- ▶ Resolution in FOL
- ▶ Forward Chaining and Backward Chaining
- ▶ Backward Chaining and Forward Chaining
- ▶ Reasoning in AI
- ▶ Inductive vs Deductive sing

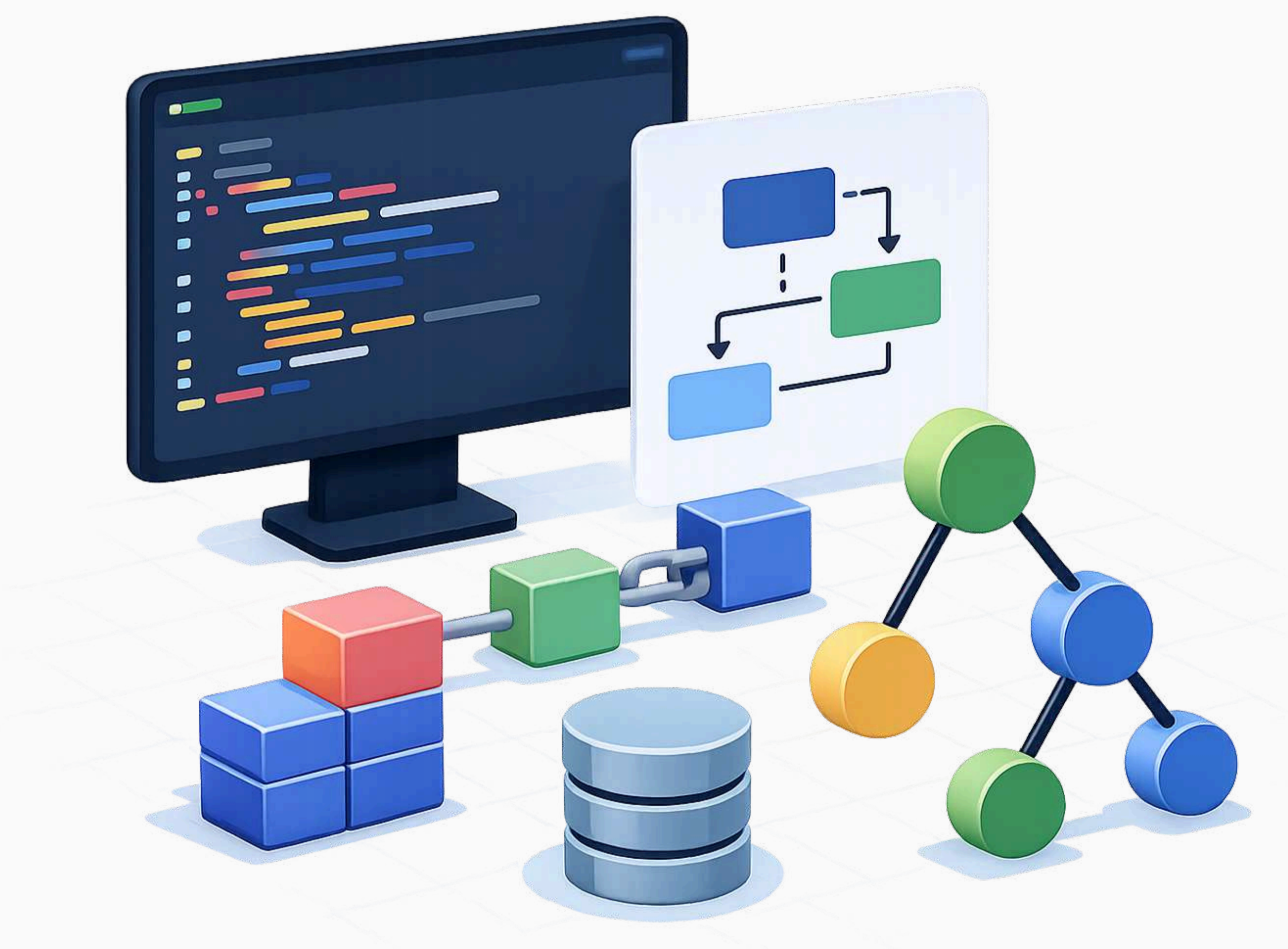


AI (Artificial Intelligence)

- › Example of AI
- › AI in Education
- › AI in Engineering Applications
- › Scope of AI
- › AI in Stock
- › AI in Banking
- › AI in Automotive Industry
- › AI in Civil Engineering
- › AI HR
- › AI in Marketing
- › Embedding
- › Audio Transcription
- › Moderation
- › AI in Healthcare
- › AI in Agriculture
- › AI and Robotics
- › Agent of AI
- › AI as services
- › Cognitive AI
- › AI in Manufacturing Industry
- › AI in Gaming Industry
- › AI in Medicine
- › Chat Completion
- › Text to Image
- › Text to Speech



DSA (Data Structure & Algorithm)



- › Instruction to Data Structure
- › Performance Analysis
- › Arrays
- › Pointers
- › Stocks Implementation
- › Queues
- › Algorithms
- › Asymptotic Notations
- › Structures
- › Dynamic Memory allocation
- › Stock Implementation using pointer
- › Double Ended queue (Deque)

CRT, VERBAL & SOFT SKILLS

APTITUDE	REASONING	VERBAL (ENGLISH)
Number system (Divisibility ,LCM & HCF, Decimal Fraction,Power..)	Statement & Conclusion	Reading Comprehension
Time & work	Coding & Decoding	Article , preposition
Speed & Distance	Seating Arrangement (Linear and Circular)	Direct & Indirect speech
Profit and Loss	Analogy Pattern (Word and Number)	Active and Passive
SI and CI(Interest)	Odd man out & Number Series	Tenses
Permutation and combination	Distance and Direction	Vocab- Synonym and Antonym (On a daily basis)
Probability	Logical word Sequence	Spelling text
Percentages	Blood Relation	Idioms and Prases
Averages	Symbols and Notations	Spotting Error
Ratio and Proportion	Rank based Logic	Fill in the blanks
Coordinate and Quadratic Equations	Data Sufficiency	Sentence Improvement and Sentence Completion
A.P and G.P	DI (Pie and Bar graph)	Parajumble Sentence
Allegations and Mixture	Miscellaneous topics (if any)	Word Substitution
Boats and Streams Area & Perimeter		Model Auxiliary verbs
Miscellaneous topics (Ages , clock & Calender, Geometry)		Miscellaneous topics (Verbs, Conjunction..)
DI (Data Intrepretation)		

EMPOWERING FUTURE TECH LEADERS

At RaiseTech, we transform beginners into industry-ready professionals through practical learning, real-world projects, and expert mentorship.

WHY CHOOSE RAISETECH?



INDUSTRY RELEVANT CURRICULUM

Our curriculum is designed as per the latest industry standards.



HANDS-ON EXPERIENCE

Gain practical skills through real-time projects and assignments.



CAREER FOCUSED TRAINING

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GROW WITH CONFIDENCE

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CERTIFICATION

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OUR COURSES

- ✓ Java Full Stack Development
- ✓ Python Full Stack Development
- ✓ MERN Stack Development
- ✓ Data Science & Machine Learning
- ✓ Cyber Security
- ✓ Cloud Computing (AWS)
- ✓ UI/UX Design
- ✓ Data Analytics



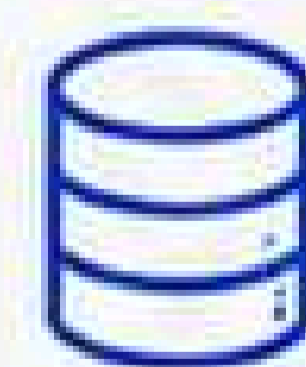
WHAT YOU WILL LEARN



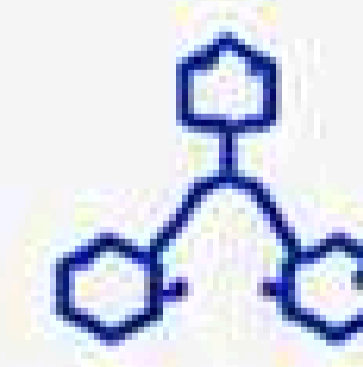
PROGRAMMING
FUNDAMENTALS



WEB
DEVELOPMENT



DATABASE
MANAGEMENT



REAL-WORLD
PROJECTS



DEPLOYMENT
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