



Java Full Stack Development



About Us

Learnify is the MSME and Startup India verified destination for professionals in product, growth, design, management, business, tech, and data. It provides curated, hands-on learning from industry experts to instantly enhance skills, foster innovation, and empower you within a global community.



Our Vision & Mission

Learnify, MSME and Startup India verified, teaches millions technical skills with expert-led, hands-on courses for career growth.



VISION

The vision of Learnify is to revolutionize education through the seamless integration of technology, creating a direct path from skill acquisition to job readiness.



MISSION

Our mission is to provide personalized and engaging learning experiences for students of all ages by leveraging digital tools, virtual platforms, and data-driven insights to ensure effective skill mastery and career readiness.

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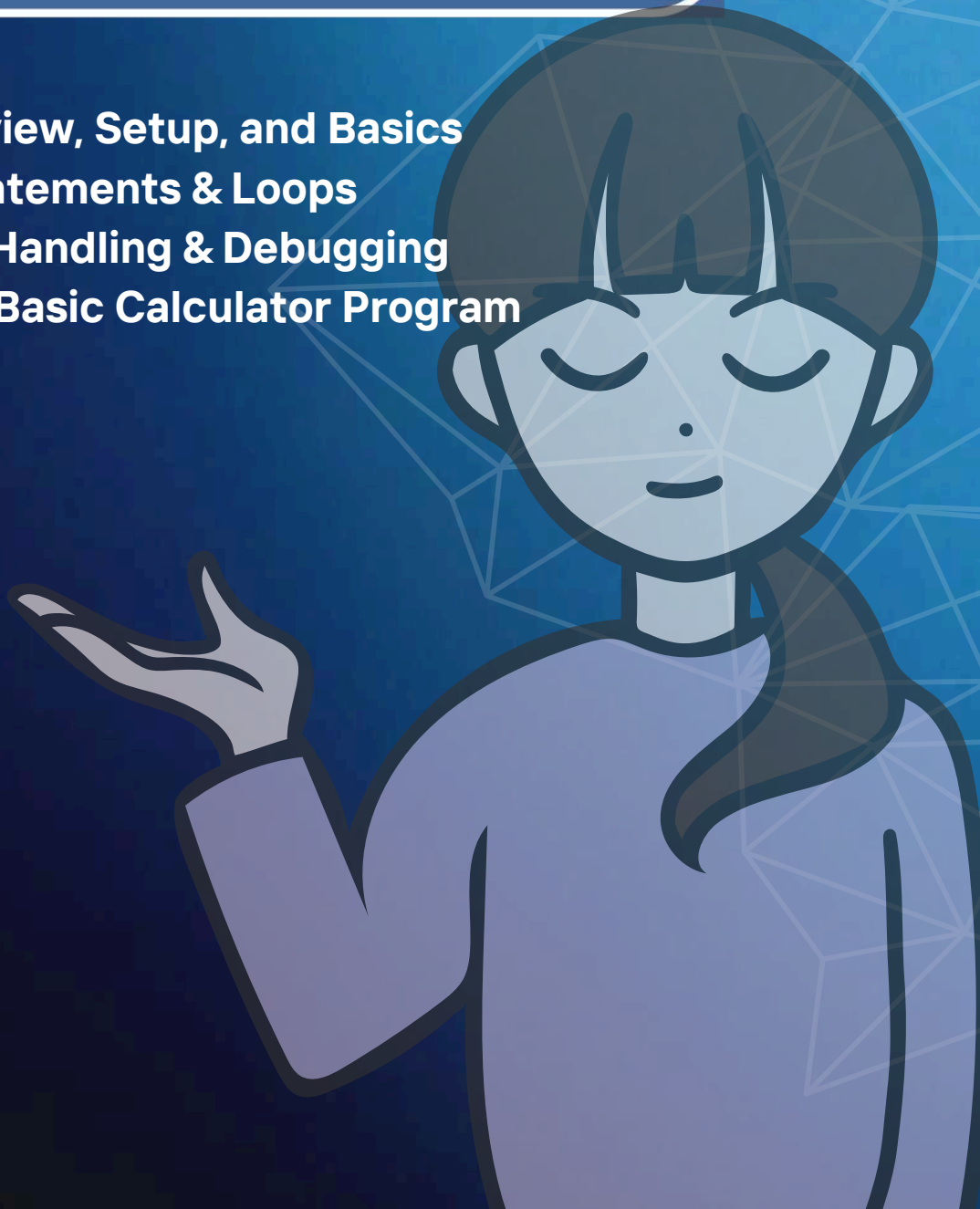


COURSE CURRICULUM

1.

INTRODUCTION TO JAVA PROGRAMMING

- Java Overview, Setup, and Basics
- Control Statements & Loops
- Exception Handling & Debugging
- Hands-on: Basic Calculator Program



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2.

OBJECT-ORIENTED PROGRAMMING (OOPS) CONCEPTS

- **Classes, Objects, Constructors**
- **Inheritance, Polymorphism, and Interfaces**
- **Abstraction and Encapsulation**
- **Hands-on: Banking System using OOP**



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3.

COLLECTIONS FRAMEWORK & FILE HANDLING

- Lists, Sets, Maps, and Queues
- Streams API & Lambda Expressions
- File I/O & Exception Management
- Hands-on: Student Record Management System

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4.

WEB FUNDAMENTALS

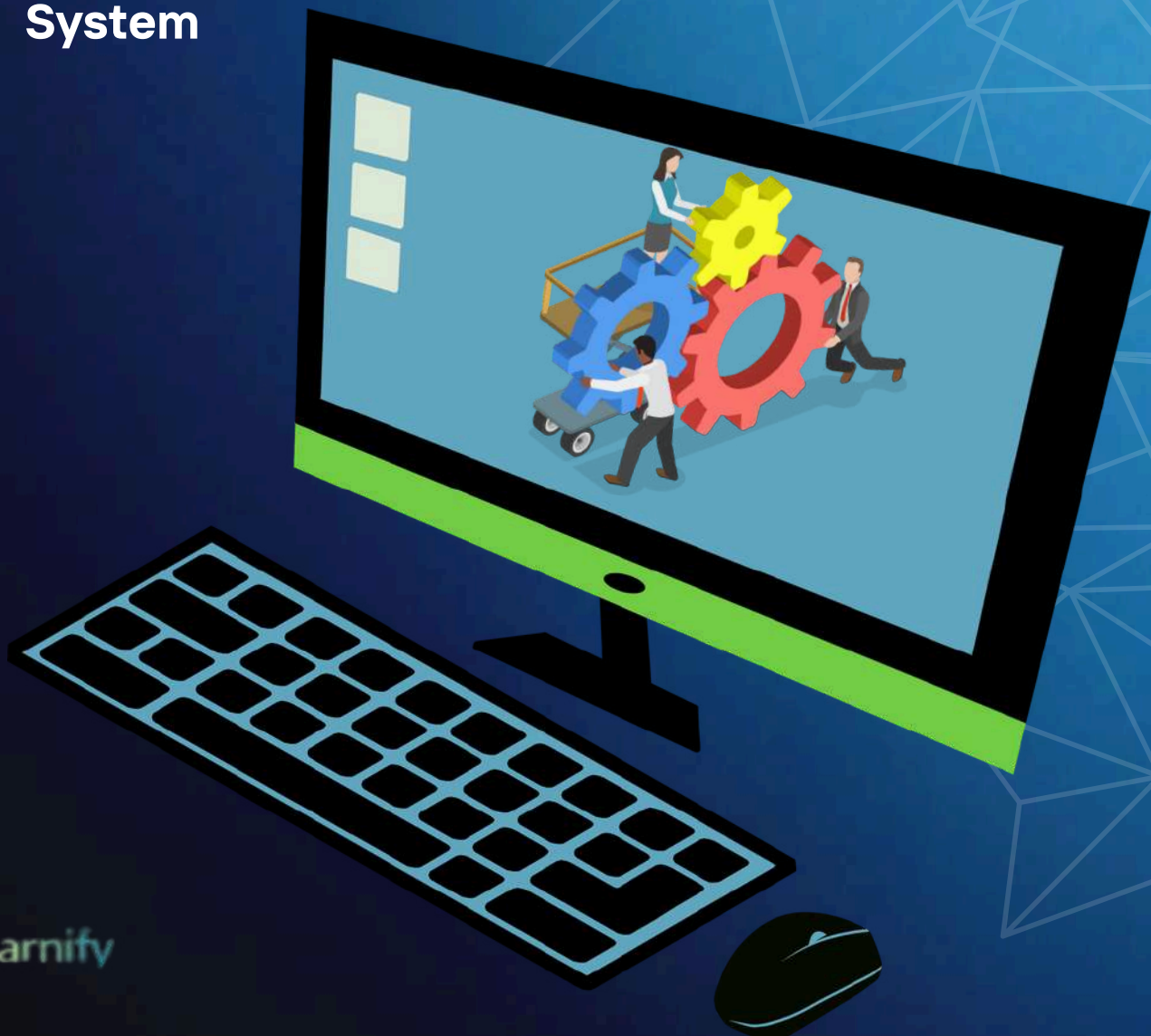
- HTML, CSS, JavaScript Basics
- DOM Manipulation & Events
- Responsive Design with Bootstrap
- Hands-on: Personal Portfolio Page



5.

JDBC & DATABASE INTEGRATION

- SQL Fundamentals & CRUD Operations
- JDBC Architecture & Connectivity
- Transactions and Exception
- Handling Hands-on: Library Management System



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6. SERVLETS AND JSP (JAVA SERVER PAGES)

- Servlet Lifecycle & Web Architecture
- Session Management and Authentication
- JSP Tag Libraries and JSTL
- Hands-on: Online Login-Registration System



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7.

SPRING FRAMEWORK (CORE + BOOT)

- Introduction to Spring Boot & REST APIs
- Dependency Injection & Configuration
- API Validation & Exception Handling
- Hands-on: REST API for Employee Portal



8. HIBERNATE ORM & JPA

- Entity Mapping & Relationships
- HQL Queries & Caching
- Integrating Hibernate with Spring Boot
- Hands-on: Product Inventory Management System



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9.

REACT.JS FRONTEND DEVELOPMENT

- Components, Props, and State
- Hooks, Routing, and REST API Integration
- Authentication & Form Handling
- Hands-on: Dashboard Frontend with React



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10. ADVANCED JAVA DEVELOPMENT & MICROSERVICES

- **Microservices Architecture & Communication**
- **Spring Security & JWT Authentication**
- **API Gateway, Eureka, and Service Registry**
- **Hands-on: Microservice-Based E-Commerce App**

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11.

DEVOPS & CLOUD DEPLOYMENT

- **Git & GitHub Workflow**
- **Containerization with Docker**
- **CI/CD Basics (Jenkins/GitHub Actions)**
- **Deployment on AWS / Heroku**
- **Hands-on: Deploying Full Stack App to Cloud**



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12. CAPSTONE & RESEARCH PAPER PROJECTS

- Comparative Study on Java Frameworks for Scalable Web Applications
- AI Integration in Full Stack Applications using Java APIs
- Performance Analysis of Dockerized Java Applications
- Serverless Java Deployment on Cloud Platforms
- E-Commerce Application
- Learning Management System (LMS)

13.

EACH RESEARCH PROJECT INCLUDES

- Problem Statement
- Literature Review
- Implementation Report
- Research Findings & Publication Guidance



14.

RESUME BUILDING & PROFILE OPTIMIZATION

- Crafting an ATS-friendly resume tailored to tech roles
- Optimizing LinkedIn & GitHub profiles
- Writing impactful career objectives and summaries



15. APTITUDE & LOGICAL REASONING

- **Quantitative Aptitude: Speed, Accuracy & Problem Solving**
- **Logical Reasoning: Puzzles, Patterns & Data Interpretation**
- **Mock Tests and Time Management Strategies**



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16.

COMMUNICATION & SOFT SKILLS

- **Verbal Communication: Public Speaking & Presentation Skills**
- **Email Etiquette and Business Communication**
- **Teamwork, Leadership, and Professional Behavior**



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17.

TECHNICAL INTERVIEW TRAINING

- Core DS Interview Concepts & Q&A Practice
- Hands-on Coding Interview Sessions (Python & Data Structures)
- Whiteboard Problem Solving & Project Discussion Tips



18.

HR & BEHAVIORAL INTERVIEW PREPARATION

- Understanding HR Questions & Framing STAR-Method
- Answers Mock HR Interviews with Personalized Feedback
- Building Confidence and Positive Body Language



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19.

INTERNSHIP & JOB ASSISTANCE

- Access to Learnify's Hiring Partner Network
- Internship Opportunities with EdTech & AI Startups
- Job Alerts, Career Counseling & Placement Support



20.

CERTIFICATION & CAREER SUPPORT

- Learnify Certificate of Completion
- MSME & Startup India Certification
- Resume Building & LinkedIn Optimization



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