

TheKiranAcademy
≡javabyKiran≡

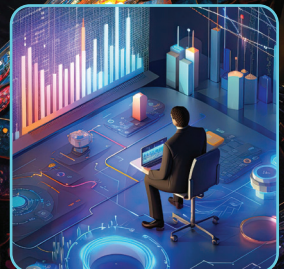
DATA SCIENCE

& Machine Learning using Python

Full Stack Development

Teaching Languages 🗣️

हिंदी | English



☆ About Our Founder and Top Trainers ☆



Mr. Kiran Digrase

Founder and CEO of "The Kiran Academy"



14 years of experience in the financial IT domain.

Worked
with clients



Why our Course?



155% Highest
Hike



₹16 Lakhs
Highest Salary



40% Hike
In Demand



738+ Hiring
Partner



315+ Best
Industry Experts



100% Placement
Assurance

Our Success Journey

2014

Established "Java By Kiran"
Institute at Karve Nagar, Pune.

We Become "The Kiran Academy"
From "Java By Kiran"

2018

2020

Opened our 2nd Branch
at Pimpri Chinchwad

Opened our 3rd Branch
at Warje, Pune.

2021

2022

Opened our 4th Branch
at Deccan, Pune.

Opened our 5th Branch
at Chatrapati Squar, Nagpur.

2023



About us

Vision

We bridge the gap by providing skilled professional training to students & help them get placed in the company.

Our Mission

We empower individuals to up-skill for IT software company. We provide comprehensive **Industry focused** live training.

1. Contact us through our website or visit to the institute
2. Fill out the registration form & career counseling
3. Take admission & collect admission kit
4. Join WhatsApp broadcast message group
5. Join our learning portal
6. Attend online/classroom sessions
7. Take as many mock tests as you need
8. Prepare for the interview alongside a grooming session
9. Participate in job interviews & engage in interview rounds
10. Get placed & secure a job offer

Our Certifications



25,000+
Students
Placed



Best
Placement
Ratio

Common Features

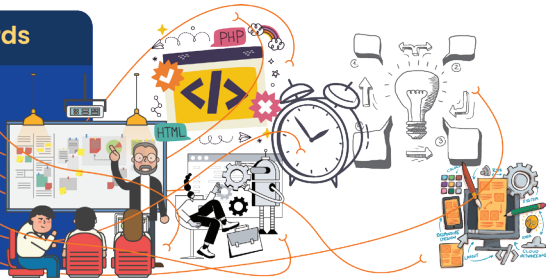


Test, Assessments & Mocks

- Topic-wise Weekly Test
- Topic-wise Assessments
- Mock Interview Preparation
- One-On-One Discussion
- Interview Feedback On Emails

Best Practices & Coding Standards

- Naming Conventions
- Code Formatting & Style
- Writing Maintainable & Readable Code
- Code Reusability
- Code Auto-generation
- Real Time Scenarios
- Problem Statements & Solutions



Soft Skills

- 360° Development
- Resume Building
- Enhancing Confidence
- Logic Building Session
- English Communication



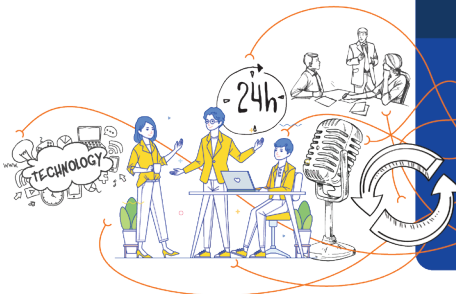
Debugging & Troubleshooting

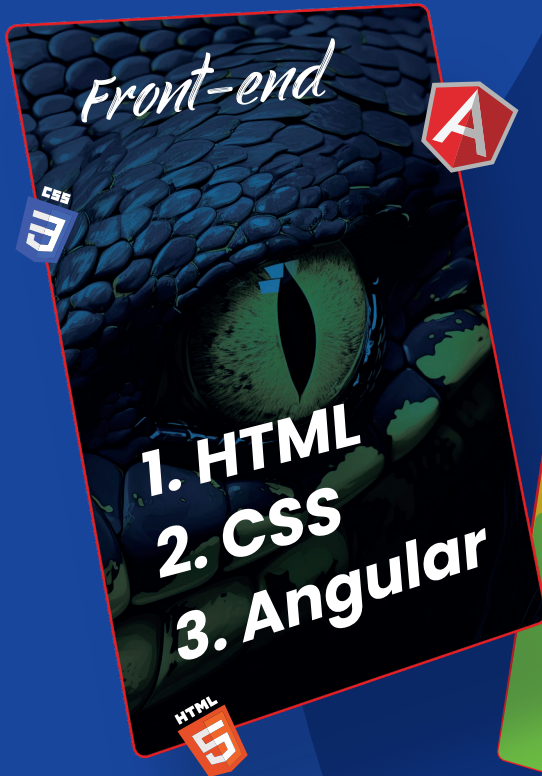
- Use of Debugging Tools
- Identifying & Fixing Common Errors
- Handling Industrial Scenarios



What Makes Us Distinct?

- Exclusive Recorded Sessions
- Flexible Batch Switching Option
- Unlimited Mock Interviews
- 24/7 Live Support
- Personalized One-On-One Discussions
- 100% Transparency
- Comprehensive Technology Packages
- Industry Expert Trainers







1. HTML Basics.....

- HTML Introduction
- HTML Document Structure
- HTML Syntax

2. Text Formatting.....

- Headings (`<h1>` to `<h6>`)
- Line Breaks (`
`) & Horizontal Rules (`<hr>`)
- Paragraphs (`<p>`)
- All Basic Tags

3. Lists.....

- Ordered Lists (``)
- Un-ordered Lists (``)
- List Items (``)

4. Links and Anchors.....

- Hyperlinks (`<a>`)
- URLs & Paths
- Link Text
- Link Targeting

5. Marquee Element.....

- Element Introduction & Attributes
- Creating Scrollable Text & Images

6. Images.....

- Image Tag (``)
- Image Source (`src` Attribute)
- Image Dimensions (Width and Height Attributes)
- Alt Text (`alt` Attribute)

7. Forms.....

- Form Tag (`<form>`)
- Input Fields (`<input>`)
- Textareas (`<textarea>`)
- Select Menus (`<select>`)

8. Div and Spans.....

- Block-level Elements (`<div>`)
- Inline Elements (``)

9. Iframe.....

- Embedding Videos
- Embedding Maps
- Embedding Social Media Feeds
- Displaying External Content
- Displaying Advertisements

10. HTML Comments.....

- Adding Comments

11. CSS Linking.....

- Linking External CSS (`<link>`)

1. Introduction to CSS.....

- What is CSS and its role in web development.
- Inline, internal, and external CSS.
- CSS syntax and basic structure.

2. CSS Selectors & Properties.....

- Understanding CSS selectors
- Applying styles using element, class & ID selectors
- Changing text and background colors
- Adjusting font properties (size, family, weight)

3. CSS Borders.....

- Exploring different border styles
- Adjusting border width and color
- Creating decorative borders
- Adding rounded corners to elements

4. CSS Margins and Padding.....

- Exploring margin properties for spacing control
- Setting margins for individual sides
- Using shorthand margin notation for efficiency
- Creating spacing between elements
- Combining Margin and Padding

5. CSS Fonts.....

- Customizing text styles with font properties
- Choosing font families & font stacks
- Adjusting font size, weight, style, and color

6. CSS Tables.....

- Styling HTML tables and their elements
- Setting borders and spacing for table cells
- Alternating row colors for better readability

7. CSS Background & Images.....

- Setting background color and images
- Controlling background repeat & position
- Creating image galleries with CSS



Angular



1. What is Angular?

- Angular Version History
- Architecture of Angular Apps
- Setting up the Environmental Setup
- Structure of Angular Projects
- Creating Components Manually
- Creating Components through CMD
- String Interpolation

2. Data Binding, Handling Events & Directives

- String Interpolation vs Property Binding
- Property Binding
- Class Binding
- Style Binding

1. Event Binding

• (click), (change), (keyup), (keydown) • Mouse Events

- Two-Way Binding
- Directives
- Structural Directives (ngIf, ngIf else, ngFor)
- ngStyle
- ngClass

3. Component Interaction, Input & Output Properties, Pipes, Services & Dependency Injection

1. Component Interaction

- @Input() and @Output() Decorators

2. Pipes

- Inbuilt Pipes
- Creating Custom Pipes
- @Pipe Decorator

4. HTTP Services and Observables

- What is a Service?
- Dependency Injection in Angular
- Introduction to HTTP
- Error Handling
- Introduction to Observables
- Injectable Decorator
- Connecting to the Backend
- Using HTTP Services
- 1. CRUD Operations with HTTP
 - GET, POST, PUT, DELETE

5. Routing in Angular

- What is Routing?
- Configuring Routes
- Using the Router-outlet Tag
- Routing Using Router-link Directive
- Programmatic Routing
- Sending Data through Routing
- Lazy Loading Concepts

6. Bootstrap and Template-Driven Forms

- Overview of Bootstrap
- Bootstrap Grid System
- Using the Form Control Class
- Validation of Template-Driven Forms
- ngForm Directive
- ngValue Directive
- ngSubmit Directive
- FormControl

Back-end

Machine Learning

- Implement Machine Learning Algorithms
- Use SciKit-Learn for Machine Learning Tasks
- Use SciPy for Machine Learning Tasks
- K-Means Clustering for Machine Learning
- Logistic Regression for Machine Learning
- Linear Regression for Machine Learning
- Random Forest and Decision Trees

Data Science

- NumPy for Numerical Data
- Pandas for Data Analysis
- Matplotlib for Python Plotting
- Parallel Pandas for big data
- Seaborn for statistical plots
- Plotly for dynamic visualizations

Core Python Django



Core Python

1. Introduction to Python Programming

- Capabilities of Python:
- Why Choose Python?
- Useful Insights:
- Python Syntax vs. Other Programming Languages
- Python Installation

2. Starting with Python Fundamentals

- Print Statements
- Comments
- Python Data Structures & Data Types
- String Operations in Python
- Simple Input & Output
- Simple Output Formatting
- Operators in Python

3. Python Program Flow Overview

- Indentation
- The If Statement and Its Related Statements
- Example with If and Its Related Statements
- The While Loop
- The For Loop
- The Range Statement
- Break & Continue
- Assert
- Looping Examples

4. Functions and Modules

- Creating Your Own Functions
- Function Parameters
- Variable Arguments
- Scope of a Function
- Function Documentation
- Lambda Functions & Map
- Exercise with Functions
- Creating a Module
- Standard Modules

5. Exception Handling in Python

- Errors
- Exception Handling with Try
- Handling Multiple Exceptions
- Writing Your Own Exception

6. File Handling

- File Handling Modes
- Reading Files
- Writing & Appending to Files
- Handling File Exceptions
- The 'with' Statement

7. Classes in Python

- New Style Classes
- Creating Classes
- Instance Methods
- Inheritance
- Polymorphism
- Exception Classes & Custom Exceptions

8. Generators and Iterators

- Iterators
- Generators
- Functions 'any' and 'all'
- 'with' Statement
- Data Compression

9. Data Structures

- Module
- List Comprehensions
- Nested List Comprehensions
- Dictionary Comprehensions
- Functions
 - Default Parameters
 - Variable Arguments
 - Specialized Sorts

10. Collections

- Module
- namedtuple()
- deque
- ChainMap
- Counter
- OrderedDict
- defaultdict
- UserDict
- UserList
- UserString

11. Creating GUIs with Python (Tkinter)

- Introduction
- Components and Events
- An Example GUI
- The Root Component
- Adding a Button
- Entry Widgets
- Text Widgets
- Check Buttons

12. Python SQL Database Access

- Module Introduction
- Installation
- DB Connection
- Creating DB Table
- INSERT, READ, UPDATE, DELETE Operations
- COMMIT & ROLLBACK Operations
- Handling Errors

13. Date and Time

- Module
- sleep
- Program Execution Time
- Additional Methods on Date/Time

14. Exploring Additional Topics in Detail

- Filter
- Map
- Reduce
- Decorators
- Collections

15. Regular Expressions

- Split
- Working with Special Characters, Dates, Emails
- Quantifiers
- Match and Find All
- Character Sequence and Substitute
- Search Method

16. Essentials of Threads

- Class and Threads
- Multi-Threading
- Synchronization
- Threads Life Cycle
- Use Cases

17. Essentials of Accessing APIs

- Introduction
- Facebook Messenger
- OpenWeather



Django

Django

- Introduction to Django
- Difference Between an App and Project
- Understanding Migrations and Their Purpose
- Admin Part: Creating a Superuser in Python
- Views in Django URL Routing
- Render and Relative Import
- Overview of Settings File in Django
- Configuring Templates in Django
- Understanding Models
- Linking Models to Admin
- Creating ModelForms
- Form Validation in Django
- Context in Django
- Forms in a View
- Custom Forms
- Setting up Email in Projects
- Static Files and Serving in Django
- Bootstrap Grid System
- Introduction to CSS and Blocks
- URL Names as Links
- Adding Authentication in Django Project
- Authentication Links in Navigation Bar
- Adding Login Form in Bootstrap
- Query Set Basics
- Rendering Images and Videos on Our Site

7. Advanced SQL Concepts

- **Grouping and Aggregating Data**
 - GROUP BY Statement
 - HAVING Clause
- **Subqueries and EXISTS Operator**
 - Subqueries
 - EXISTS Operator
- **Comparison with ANY and ALL Operators**
 - ANY Operator
 - ALL Operator
- **Joining Tables**
 - INNER JOIN
 - LEFT JOIN (LEFT OUTER JOIN)
 - RIGHT JOIN (RIGHT OUTER JOIN)
 - FULL JOIN (FULL OUTER JOIN)

Database



Introduction to Database



1. Introduction

- Definition and importance of databases.
- Overview of SQL (Structured Query Language)

2. Database Fundamentals

- Explanation of databases as structured data repositories
- Types and applications of databases (relational, NoSQL, etc.)
- Role of databases in various industries

3. SQL Essentials

- Introduction to SQL as the language for managing databases
- Categories of SQL statements (DDL, DML, DQL)
- Significance of SQL in data manipulation and retrieval

4. Installation of MySQL

- Steps to install MySQL
- Configuring database server settings
- Command-line and graphical tools for MySQL

5. Exploring SQL Statements

- **Data Definition Language (DDL)**
 - CREATE statement
 - ALTER statement
 - TRUNCATE statement
 - DROP statement
 - RENAME statement
- **Data Manipulation Language (DML)**
 - INSERT statement
 - UPDATE statement
 - DELETE statement
- **Data Query Language (DQL)**
 - SELECT statement

6. SQL Query Basics

- Data filtering
- Logical operators
- LIKE operator & wildcard characters
- IN and BETWEEN operators
- ORDER BY
- Handling NULL values.
- Aggregate functions
- String, Date & Time functions

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Node.js

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Python

HTML | CSS | Angular
Core Python | Django

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