

TheKiranAcademy  
=javabyKiran=

# DATA SCIENCE

## & Machine Learning

using

# Python

### Full Stack Development

Teaching Languages 

हिंदी | English



## About Our Founder



**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 2<sup>nd</sup> Branch at Pimpri Chinchwad

Opened our 3<sup>rd</sup> Branch at Warje, Pune.

**2021**

**2022**

Opened our 4<sup>th</sup> Branch at Deccan, Pune.

Opened our 5<sup>th</sup> 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.



- ## 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

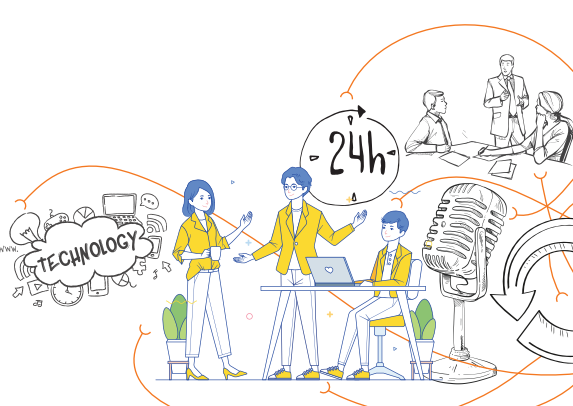
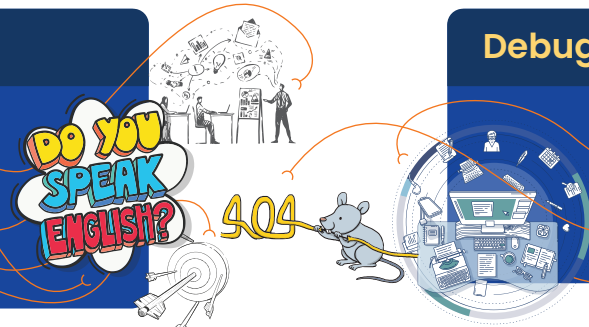


## Soft Skills

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

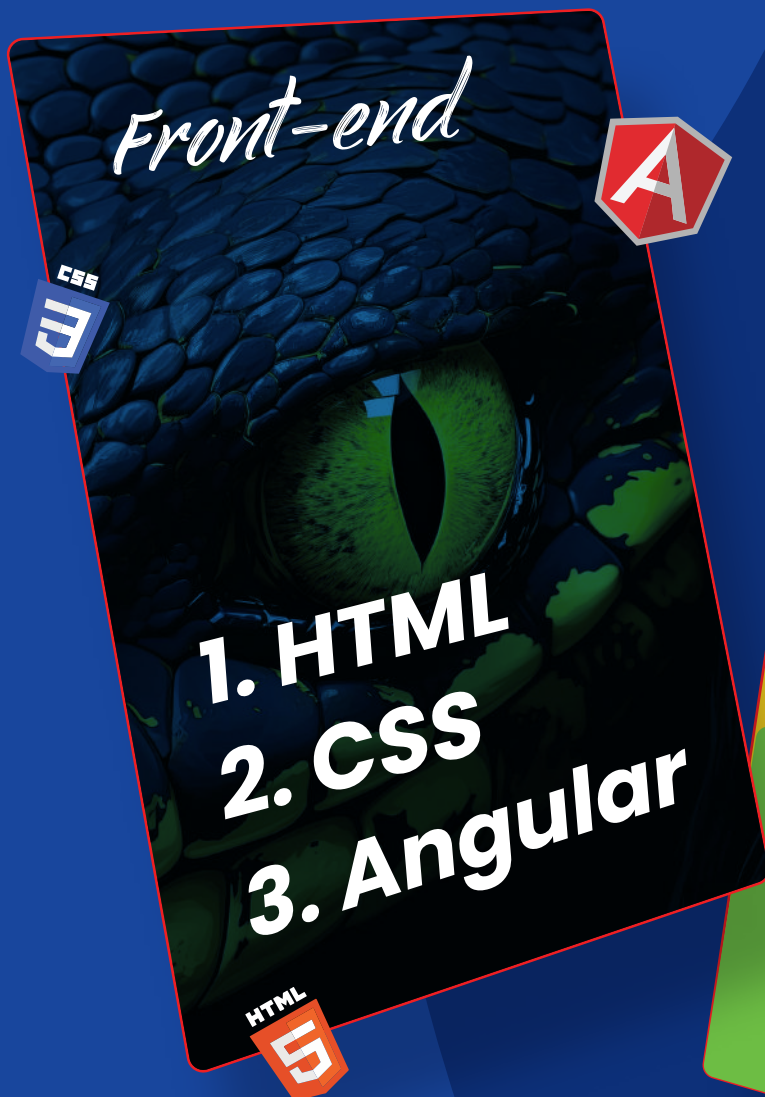
## Debugging & Troubleshooting

- 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>`)
- Paragraphs (`<p>`)
- Line Breaks (`<br>`) & Horizontal Rules (`<hr>`)
- All Basic Tags

## 3. Lists.....

- Ordered Lists (`<ol>`)
- List Items (`<li>`)
- Un-ordered Lists (`<ul>`)

## 4. Links and Anchors.....

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

## 5. Marquee Element.....

- Element Introduction & Attributes
- Creating Scrollable Text & Images

## 6. Images.....

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

## 7. Forms.....

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

## 8. Div and Spans.....

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

## 9. Iframe.....

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

## 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

## 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

### 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)

#### Our Courses





Scan to Apply

# Industry's Finest Trainers



## Our Top Courses



**Java Full Stack Development**



**Python Full Stack Development**



**AWS**



**Selenium Software Testing**



**MEARN**

MongoDB | Express.js  
| Angular | React JS |  
Node.js



**C#.NET**

# TheKiranAcademy

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**Higher IT-Courses  
Institute & Placement Centre**

## Training Hubs in Pune: Karve Nagar | Deccan | Warje | Chinchwad

### Corporate Office & Branch

Add: 403, 2<sup>nd</sup> Floor, Park Plaza,  
above Birla Super Market, State  
Bank Nagar, Shramik Vasahat,  
Karve Nagar, Pune, Maharashtra  
411052

### Branch: Deccan

Add: 2<sup>nd</sup> floor, Rainbow Plaza,  
Jangali Maharaj Rd, opp Modern  
High School, Shivajinagar,  
Deccan Cymkhana, Pune,  
Maharashtra 411005

### Branch: Chinchwad

Add: KUNAL PLAZA, 2nd Floor,  
Old Mumbai - Pune Hwy,  
Pimpri-Chinchwad, Maharashtra  
411019

### Branch: Warje

Add: 1<sup>st</sup> floor, The Kiran Academy,  
Dr Ambedkar Chowk, above  
Royal Car Decor, Warje Jakat  
Naka, Warje, Pune,  
Maharashtra 411058

### Nagpur

1st Floor, 190/A H.No.227, Ring Rd, near Chatrapati Hall,  
Chatrapati Nagar, Nagpur, Maharashtra 440015

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# Python

HTML | CSS | Angular  
Core Python | Django

Let's Fly  
With Us 



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Recognizing Us For Excellence.



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