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**Shiva
Gautam**

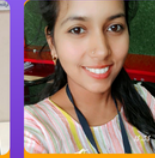
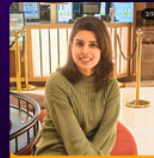
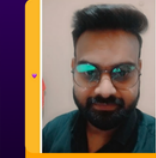
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MERN STACK

PYTHON

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 9.8 Avdesh Sharma LPA Infosys	 8.3 Mukesh Panday LPA Infosys	 4.8 Nilesh Carpenter LPA ESP Softech	 5.2 Prakash Kharche LPA Tech Jockey	 6.8 Mukesh Randhava LPA Neosoft	 9.8 Akram khan LPA x-Biz	 4.3 Swapnil Joshi LPA x-Biz	 4.8 Ranjana Jadhav LPA TaskCraft
 4.8 Rajat Ghate LPA Glazer Games	 5 Aman Verma LPA Mosphe	 4.8 Piyush Patidar LPA Divergent	 4.8 Aditya Seth LPA Shethink	 4.3 Sonu Gunhare LPA thoughtwin	 11 anuja solanki LPA Oracle INC	 4.2 Lokesh Kaushik LPA Tracen code	 4.8 Parag Jaisawal LPA KSolvo
 4.8 Naman Joshi LPA EXPLETUS	 3 Sakshi Sahu LPA Softops	 4.2 Madhur Tiwari LPA TCS	 4.3 Arushi Rathore LPA bitcot	 6 Veerendra Singh LPA Kelton	 3 Firoz Rizvi LPA Thoughtwin	 4.2 Ibbhishek Parihar LPA Ideal IT Techno	 6.0 Chinmay Chaturvedi LPA Agility Visual

JAVA

QA, SALESFORCE, DA, DS, AI\ML

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 2.8 shubham sharma LPA kvsofttech	 5.8 Ankit Goswami LPA Capgemini	 5 Amogh Saxena LPA Digmalet	 3.5 harsh bhonsale LPA dure dev	 4.2 Prateek bhardwaj LPA hivatechnolab	 5.2 Shubham singh LPA Gamma-stack	 4.5 Priya singh LPA ksolve	 5.0 Neha choudhary LPA moryah	 6.2 Naveen Yadav LPA Protonshub
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AI-POWERED PYTHON FULL STACK COURSE

Duration: 3-4 months

Course Highlight:

PYTHON, ADVANCE PYTHON, PYTHON DSA, SQL, Data Science Libraray, Django, Django REST API

Module 1: Core Python (Beginner to Intermediate)

Objective: Build strong Python fundamentals for programming & problem solving.

Topics:

1. Introduction to Python

- History, versions, installation, IDEs (VS Code, PyCharm, Jupyter)
- Syntax, indentation, comments, variables

2. Data Types & Operators

- Numbers, Strings, Lists, Tuples, Sets, Dictionaries
- Type conversion & operators (arithmetic, logical, identity, membership)

3. Control Structures

- Conditional statements (if, elif, else)
- Loops (for, while, nested loops)
- break, continue, pass

4. Functions

- Function definition & calling
- Arguments (positional, keyword, default, *args, **kwargs)
- Return values, recursion, lambda functions

5. Strings & Collections

- String methods, formatting, slicing
- List, Set, Tuple, Dictionary operations & comprehensions

6. File Handling

- Open, read, write, append
- Context manager (with keyword)

7. Exception Handling

- Try-except-finally
- Multiple exceptions
- Custom exceptions

Module 2: Advanced Python (Industry Level)

Objective: Master OOP, functional programming, concurrency, and popular Python libraries.

Topics:

1. Object-Oriented Programming

- Classes, objects, constructors
- Inheritance, polymorphism, encapsulation, abstraction
- Method overriding, super()
- Magic/Dunder methods (__str__, __len__, __add__)

2. Functional Programming

- map, filter, reduce
- Iterators & Generators
- Closures & Decorators

3. Modules & Packages

- Importing modules & creating custom modules
- pip, PyPI, virtual environments

4. Python Standard Libraries

- os, sys, datetime, random
- collections (deque, Counter, defaultdict)
- itertools (permutations, combinations, cycle)
- functools (lru_cache, partial, reduce)

5. Concurrency & Async

- Multithreading & multiprocessing
- Global Interpreter Lock (GIL)
- AsyncIO (async, await)

6. Advanced Topics

- JSON & CSV handling
- Logging & debugging
- Unit testing (unittest, pytest)
- Memory management & optimization

7. Popular Libraries

- NumPy, Pandas, Matplotlib/Seaborn
- Requests (API calls), BeautifulSoup (web scraping)

Module 3: Web Frontend Basics (HTML, CSS, JS)

1.1 HTML (Structure of Web Pages)

- Introduction to HTML & Web
- Basic tags: html, head, title, body
- Headings, paragraphs, links, images, lists
- Tables & forms
- Semantic HTML (header, footer, section, article)
- HTML5 elements (video, audio, canvas)

1.2 CSS (Styling Web Pages)

- Inline, Internal & External CSS
- Selectors (element, class, id, group, pseudo-classes)
- Box model (margin, border, padding)
- Colors, fonts, backgrounds
- Flexbox & Grid layout
- CSS Positioning (static, relative, absolute, fixed, sticky)
- Transitions & animations
- Responsive design (media queries)

1.3 Bootstrap (CSS Framework)

- Introduction to Bootstrap 5
- Container, rows & columns (Grid system)
- Buttons, alerts, badges, cards, navbars
- Forms & tables styling
- Modals, dropdowns, tooltips

1.4 Tailwind CSS (Utility-First CSS Framework)

- Introduction & installation (CDN, npm, Vite setup)
- Utility classes for spacing, colors, typography
- Flexbox & grid utilities
- Buttons, cards, navbars with Tailwind
- Dark mode & responsive design

1.5 JavaScript (Adding Logic to Web Pages)

- Introduction & syntax
- Variables (let, const, var)
- Data types & operators
- Control structures (if-else, switch, loops)
- Functions & scope
- DOM Manipulation
 - Selecting elements (getElementById, querySelector)
 - Changing content & styles
 - Event handling (click, hover, form submit)
- Arrays & objects basics
- ES6 Features: arrow functions, template literals, spread/rest operators

Module 4. Django Backend Development

2.1 Django Fundamentals

- Installing Django & project structure
- Django apps, MTV architecture
- URL routing & views
- Templates & static files
- Django ORM (models, migrations, queries)

2.2 Database

- SQLite & PostgreSQL setup
- Relationships (One-to-One, One-to-Many, Many-to-Many)
- QuerySet methods & raw queries
- Model validations

2.3 Django Advanced

- Forms & ModelForms
- Class-based views vs Function-based views
- Django authentication (login/logout, permissions)
- Django middleware
- File/image uploads
- Session and Cookie
- Ajax in Django
- Customization of Super-Admin Panel
- **Create Complete POLLS APP**

2.4 Django REST Framework (DRF)

- Introduction to DRF & REST API design
- Serializers (ModelSerializer, custom)
- Generic Views & ViewSets
- Routers & URL mapping
- Authentication in DRF (Token, JWT, OAuth2)
- Permissions & throttling
- Pagination & filtering

Module 5. React Frontend Development

3.1 React Basics

- React project setup (Vite/CRA)
- JSX & rendering
- Components (functional & class-based)
- Props & state
- Event handling & forms

3.2 React Advanced

- React hooks (useState, useEffect, useContext, useReducer)
- Context API for global state
- React Router (protected routes, nested routing)
- Error boundaries

3.3 UI & Styling

- Tailwind CSS / Bootstrap with React
- Component libraries (Material UI, Ant Design, ShadCN)
- Responsive design & layout

3.4 State Management

- Redux Toolkit (slices, async thunks)
- RTK Query for API requests
- Best practices for managing state

4. Django + React Integration

- Consuming Django REST API in React (fetch/axios)
- Handling authentication in React (JWT storage, refresh tokens)
- Protected routes & role-based access
- CRUD operations from React frontend to Django backend
- File upload/download with React & Django
- Web Security
- Use JWT Token under REACT

5. LIVE Projects

- E-Commerce Application
 - Django REST API backend (products, cart, orders, payment gateway)
 - React frontend (product listing, cart, checkout)

6. Interview Preparation (Ongoing)

- Top Django + REST API interview questions
- React + JavaScript interview questions
- System design for full-stack projects
- Resume & portfolio building (GitHub, LinkedIn, project hosting)

7. AI-Powered PYTHON FULL Stack Course Content

- Industry Skills – GitHub, CI/CD, Cloud Deployment (Vercel, AWS, Render)
- How to Write Better Prompts (Prompt Engineering)
- How to Build Front-end with AI Tools (GitHub Copilot, Framer, GSAP)
- How to Integrate AI Tools (GITHUB CO-PILOT) in IDE (VS Code)

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