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P A C E M E N T S

MERN STACK

PYTHON



3.5 | Shivam patil



3.2 | Shubham Sisodiya



8 | Kiran Malve



3.4 | shikha-sharma LPA | softude



4.5 Rishi chaurasiya giga-tech



6.0 kanika rawat



2.4 | Komal Malviya LPA | P&P infotech



5.2 | Sachin Gautam



9.8 Avdhesh Sharma



8.3 | Mukesh Panday LPA | Infosys



4.8 Nilesh Carpentar



5.2 Prakash Kharche LPA Tech Jockey



6.8 Mukesh Randhava





4.3 | Swapnil Joshi LPA | x-Biz



4.8 Ranjana Jad









4.8 | Aditya Seth LPA | Shethink



4.3 | Sonu Gunhare thoughtwin



11 | anuja solanki LPA | Oracle INC



4.2 | Lokesh Kaushik LPA | Tracen code



4.8 | Parag Jaisawa LPA | KSolvo



















JAVA

QA, SALESFORCE, DA, DS, AI\ML



2.8 | shubham sharma | kvsoftech





5 Amogh Saxe LPA Digivalet



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 Protonshub



7 kinjal singh LPA TCS



11 Siddharth Nashine LPA Accenture



5.4 Nitesh Bamh LPA Rakuten





4.5 utkarsh murera



4.5 | Aastha gupta LPA | Gucelab



3.6 Anjali verma



4.2 kushagra parmar LPA gemind system







4 Amar Singh LPA Gigatorb



56 | Ashish bhadoriya LPA | Bank of america



5.8 | Pritesh Mahjan LPA | THOUGHTWIN



6 | Prerna Sharma LPA | LMS Solutions



3.6 Pallavi Soni LPA Techcooper



3.6 Tarun Upadhyay





6.2 Arpita jain LPA ey- india











Wrangler 4.2 | Hitesh Lalwan







AI-POWERED PYTHON FULL STACK COURSE

Duration: 6 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

- o 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)
- o break, continue, pass

4. Functions

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

5. Strings & Collections

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

6. File Handling

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

2. Functional Programming

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

3. Modules & Packages

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

4. Python Standard Libraries

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

5. Concurrency & Async

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

6. Advanced Topics

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

1. Popular Libraries

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

Module 3: Data Structures & Algorithms (DSA with Python)

Objective: Solve coding interview problems & build strong problem-solving skills.

Topics:

1. Complexity Analysis

- Time & space complexity
- \circ Big O, Big Ω , Big Θ notation

2. Arrays & Strings

- Operations (insert, delete, search)
- Two-pointer & sliding window techniques
- o Prefix sum, Kadane's algorithm
- String manipulation (anagram, palindrome, substring search)

3. Stack & Queue

- Stack & queue using list/deque
- Circular queue, priority queue (heapq)
- Applications (expression evaluation, parentheses matching)

4. Linked List

- o Singly, doubly & circular linked list
- Fast & slow pointers (Floyd's cycle detection, middle node)

5. Recursion & Backtracking

- Fibonacci, factorial, Tower of Hanoi
- o N-Queens, Rat in a Maze, Word search

6. Searching & Sorting

- Linear & binary search
- $\circ\;$ Sorting: Bubble, Selection, Insertion, Merge, Quick, Heap
- Search in rotated array

Module 4: 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)
 - o Changing content & styles
 - Event handling (click, hover, form submit)
- Arrays & objects basics
- ES6 Features: arrow functions, template literals, spread/rest operators

Module 5. 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 6. 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 Secuirty
- Use JWT Token under REACT

Module 7. Additional Industry Topics

- Testing
 - o Django unit testing & pytest
 - React Testing Library / Jest
- Security
 - CSRF, CORS setup in Django
 - HTTPS, JWT expiration, refresh token strategy
- Performance
 - Django caching (Redis, Memcached)
 - React performance optimization (memo, lazy loading, code splitting)

6. Deployment & DevOps

- Backend Deployment
 - Gunicorn + Nginx setup
 - Dockerizing Django + PostgreSQL
- Frontend Deployment
 - React build & deploy (Netlify, Vercel, Nginx)
- CI/CD Basics
 - o GitHub Actions / GitLab CI for Django + React
 - o Environment variables management
- Cloud options: AWS, DigitalOcean, Railway

7. LIVE Projects

- E-Commerce Application
 - Django REST API backend (products, cart, orders, payment gateway)
 - React frontend (product listing, cart, checkout)
- Social Media Clone
 - Django REST backend (auth, posts, likes, comments)

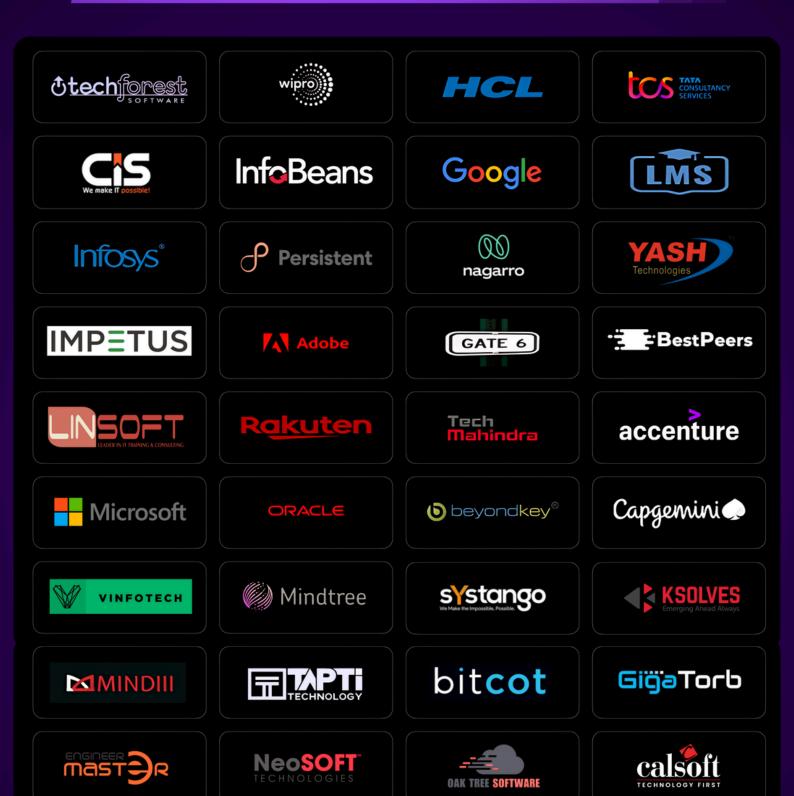
8. Interview Preparation (Ongoing)

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

9. AI-Powered PYTHON FULL Stack Course Content

- Al in React Al-powered UI components (Chatbot, Auto-suggest, Image Generator using APIs)
- Full DJANGO + AI Projects
 - o Al Chatbot with DJANGO
 - AI-Powered E-Commerce (Product Recommendation, Smart Search)
- 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-PIOLET) in IDE (VS Code)

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