



Adyapan School

Web Development (Full Stack)



Duration - 2 months

**Industry
Certification**



Skill India Certified

**250+
Partner Companies**

Architect the Digital Future

Engineer high-performance digital solutions; don't just build websites.

Master the art of architecting and deploying scalable, data-driven ecosystems in this 8-week, industry-aligned intensive. Moving beyond basic scripting, you will leverage Python and FastAPI to build sophisticated backend architectures—from secure authentication systems to complex relational schemas.

By developing real-world applications such as dynamic SaaS dashboards and high-speed APIs, you will bridge the gap between intuitive frontend design and robust server-side logic. You'll graduate with a professional-grade portfolio of full-stack applications, fully containerized and ready to solve the complex challenges of the modern web landscape.

8

MODULES

30+

PROGRAM OFFERINGS

20,000+

STUDENTS

250+ PARTNERED COMPANIES



ABOUT ADYAPAN SCHOOLS

Where education meets real-world impact

Not just a course — a platform to launch
your career.

Adyapan Schools was built with a single conviction:
learning works best when it happens in the real world.
We partner with top companies, mentors, and industry
platforms to ensure every student graduates with a
portfolio of work that speaks louder than a certificate.

Our programs combine rigorous coursework with live
client projects, giving you the skills and proof-of-work
that employers actually want.

MISSION

To equip ambitious learners with
practitioner-level digital
marketing skills through mentor-
led, project-based education that
bridges the gap between learning
and earning.



VISION

To be India's most trusted
launchpad for the next generation
of marketing leaders — defined
not by degrees but by the real
work.



Everything you need to grow fast

PROGRAM HIGHLIGHTS

Live Industry Projects

Work on campaigns for real brands alongside your coursework. Build portfolio projects that prove your expertise to employers.

1-on-1 Mentorship

Dedicated mentors from Google, Microsoft, Mastercard and more. Get personalized guidance and industry connections.



AI-Powered Marketing

Learn cutting-edge AI tools alongside evergreen fundamentals. Stay ahead of the curve in a rapidly evolving landscape.



Dual Certification

Earn both a Course Completion and Internship Certificate – accredited by Skill India Digital Hub and NSDC.



Internship Guarantee

Graduate with an internship completion certificate from a live brand project. Concrete, resume-ready proof of work.



Industry Network

Join a network of alumni at Amazon, Google, Adobe, Microsoft. Access exclusive hiring events and referral opportunities.

8 weeks. 8 modules. Infinite impact.

WEEK 1

Web Foundations & HTML

- Discussion of Curriculum— DNS, HTTP/HTTPS, clients & servers
- Dev Environment— VS Code, browser devtools, terminal, Python 3 setup
- HTML Structure— DOCTYPE, head, body, semantic tags & accessibility
- Core Elements— Headings, paragraphs, links, images, lists & tables
- Forms & Inputs— All input types, labels, validation attributes
- DOM Intro— What browsers render, ARIA roles & tab order



WEEK 2

CSS Mastery & Responsive Design

- CSS Syntax— Selectors, cascade, specificity & inheritance
- Box Model— Margin, padding, border, content & box-sizing
- Flexbox— Containers, items, alignment, wrapping — all properties
- CSS Grid— Rows/columns, template areas, auto-placement
- Design Tokens— CSS variables, Google Fonts, Font Awesome icons
- Responsive Design— Mobile-first strategy, media queries, transitions & animations



WEEK 3

Python Core Programming

- Variables & Types— int, float, str, bool, None; typeO, type coercion
- Operators & Control Flow, Loops
- Functions— def, *args/**kwargs, default params, lambda, scope & closures
- Data Structures— Lists, tuples, dicts, sets — all key methods & comprehensions
- Modules & Packages— import system, pip, virtual environments



8 weeks. 8 modules. Infinite impact.

WEEK 4

Advanced Python, DOM & Git

- OOP in Python- Classes, inheritance, dunder methods, dataclasses
- Error Handling- try/except/finally, custom exceptions,
- File I/O & JSON- Reading/writing files, json module, pathlib
- Minimal DOM & JS- querySelector, event listeners, fetch() for API calls
- GitHub- init, add, commit, push, pull, branching, GitHub Pages
- Async Python- Intro to asyncio, async/await, aiohttp



WEEK 5

Flask & Jinja2 Templating

- Micro-framework philosophy, app factory pattern, project layout
- Routing- URL rules, variable routes, HTTP methods, Blueprints
- Jinja2 - Variables, loops, conditionals, inheritance & macros
- Request & Response
- Flask Extensions— Flask-WTF forms, Flask-Login, Flask-Mail
- REST with Flask— Flask-RESTful / manual JSON APIs, status codes, CORS



WEEK 6

Databases, ORM & REST API Design

- SQL Foundations
- SQLAlchemy ORM
- RESTful API Design- HTTP verbs, resource naming, status codes, pagination
- Serialization- Marshmallow / Pydantic schemas, input validation
- File Uploads
- Python-dotenv, config classes, secrets management



8 weeks. 8 modules. Infinite impact.

WEEK 7

Django, Auth & Full-Stack Integration

- Architecture- MVT pattern, project vs apps, settings, URL dispatcher
- ORM- Models, QuerySets, admin panel, migrations
- JWT + bcrypt, register/login flow, protected routes, refresh tokens
- REST Framework- Serializers, ViewSets, routers, permissions & throttling
- Full-Stack Connect
- Real-time Features



WEEK 8

Testing, DevOps & Capstone Launch

- Unit, integration & API testing; fixtures, mocking, coverage
- Caching (Redis), query optimisation, Lighthouse audit
- Docker— Dockerfile, docker-compose for full-stack Python dev
- GitHub Actions — lint, test & auto-deploy on push to main
- HTTPS, env secrets, ALLOWED_HOSTS, Gunicorn + Nginx
- Capstone Project



WHO THIS IS FOR

This course is perfect for

Engineering Students

JS Developer

Entrepreneur / Founder

UI/UX Designer

Data Analyst / Scientist

Career Switchers

CERTIFICATIONS



ALUMNI NETWORK

Our alumni work at world-class companies

Amazon

Adobe

Google

Autodesk

Microsoft

Dalme

Your career switch is one click away.

Ready to begin? Apply at adyapanschool.com or email us at support@adyapan.com

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