

TechLeap Academy



TECHLEAP ACADEMY
UNLOCK YOUR INTELLECTUAL GRACE

ADVANCED CERTIFICATION PROGRAM IN

Cloud Computing – Fundamentals to Advanced

Powered by: **TechLeap Academy**



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Table of content :

- About Us
- Program Overview
- Tools & skills learnt
- Job Opportunities



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- Detailed Curriculum
- Recruitment Partners
- Code of Conduct
- Contact Us



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About us:

TechLeap Academy is an EdTech Platform, offers a diverse range of programs designed to match your ambitions and career goals. Whether you're just starting your journey in technology or looking to upskill, our carefully curated courses provide the perfect blend of theory and hands-on experience. From software development and web technologies to digital marketing, data analytics, and emerging tools, our programs are built with industry demand in mind. Each course is led by experienced mentors who guide you through real-world projects, ensuring you gain the confidence and expertise to succeed.

Program Overview



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Phase-1 (Application & Onboarding)

1.----- Application Submission-----2.----- Application Submission

Phase-2 (Journey Begin)

1.----- Basic Quiz----2.-----Self Analysis Drill

Phase-3 (Let's start mentorship)

- 1.-----Data Science & Analytics (Basic to advance)
- 2.-----LIVE sessions + weekly challenges.
- 3----Guidance of Industry Mentor

Phase-4 (Ready to join the industry)

- 1.-----Live Projects-----2.-----Phase Test-----
- 3.-----Internship Opportunities-----4.-----Career Assistance Session-----5.-----Mock Interviews



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TechLeap Certification

1. -----TechLeap Certification
2. -----3+Industrial Expert Guest Sessions
3. -----3+ Advanced Projects

Tools & skills learnt



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AMAZON SIMPLE
STORAGE SERVICE

VIRTUAL
ENVIRONMENT

AMAZON ELASTIC LOAD
BALANCER

AMAZON MACHINE
LEARNING

AWS LAMBDA

OSI MODEL

AMAZON RDS

CI / CD PIPELINER



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Job Opportunities

Cloud Support Engineer
(₹5-8 lakhs per annum)

DevOps Engineer
(₹6-9 lakhs per annum)

AWS Developer
(₹6-9 lakhs per annum)

Cloud Data Engineer
(₹7-10 lakhs per annum)

Cloud Solutions Architect
(₹8-12 lakhs per annum)

Cloud Security Engineer
(₹7-10 lakhs per annum)

AWS SysOps Administrator
(₹6-9 lakhs per annum)

Cloud Project Manager
(₹8-12 lakhs per annum)

Curriculum



Week 1: Introduction to Cloud Computing - Evolution, characteristics, deployment models, service models - Lab: Setting up free cloud accounts (AWS, Azure, GCP).

Week 2: Cloud Architecture & Virtualization - Architecture components, virtualization, multi-tenancy - Lab: Creating and managing AWS EC2 instances.

Week 3: Infrastructure as a Service (IaaS) - Elastic compute, storage, networking - Lab: Scalable web app with AWS EC2 + S3.

Week 4: Platform as a Service (PaaS) - Application hosting, cloud DBs - Lab: Deploying an app on Azure App Service.



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Week 5: Software as a Service (SaaS) - SaaS overview, popular SaaS platforms - Lab: Case study – SaaS adoption.

Week 6: Networking in the Cloud - Virtual networks, load balancing, CDN, DNS - Lab: Configuring load balancer & CDN.

Week 7: Cloud Storage & Databases - Object, file, block storage; SQL/NoSQL - Lab: Working with AWS S3 & DynamoDB.



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Week 8: Midterm Project – Cloud Deployment
- Multi-tier application deployment.

Week 9: Containerization & Orchestration -
Docker, Kubernetes, Serverless - Lab: Deploy
AWS Lambda function.

Week 10: DevOps & Cloud Integration - CI/CD,
Terraform, CloudFormation - Lab: Automating
infra with Terraform.



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Week 11: Cloud Security Fundamentals - IAM, encryption, compliance - Lab: IAM roles & policies in AWS.

Week 12: Monitoring & Optimization - CloudWatch, Azure Monitor, cost strategies - Lab: Monitoring dashboards.

Week 13: Multi-Cloud & Hybrid Cloud - Strategies, challenges, migration - Lab: Case study - hybrid cloud solution.



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Week 14: Emerging Trends - Edge computing, AI/ML, IoT - Lab: IoT pipeline on Google Cloud.

Week 15: Capstone Project - Cloud Solution Design - End-to-end design & implementation.

Week 16: Final Presentation & Career Preparation - Project presentations, certifications, resume building, interview prep.

Recruitment Partners



Code of Conduct

Program Structure: Skill Development Track: We will focus on enhancing skills and knowledge with LIVE sessions from industry mentors.

Certification: Successful completion of the program, including assessments, projects, and attendance, will lead to gaining Completion Certificate and Project Certificate. Internship Certificate will be provided by the company you'll be interning with, if any. Career Track (**Early Career Opportunities**): We will provide opportunities for early career development through internships.

Code of Conduct Class Schedule and Attendance: Regular Classes: Classes will be held two times a week on a consistent schedule. Evening Time Slots: Class timings will be in the evening slot between 6:30 PM - 10:00 PM, and each session will last approximately 1-1.5 hours.

Mandatory Attendance: A minimum of 70% attendance in live classes is required. Certification Criteria: Certifications will only be issued to students who maintain the required attendance.

Contact Us

Course starts:

Classes from first week of the month

Program hours:

50+ learning hours

4+ Industrial Projects

For admissions, contact:

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support@techleapacademy.org

<https://techleapacademy.com/>