



CLOUD COMPUTING

Principles, Architecture, and Applications



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MEET OUR INSPIRING PILLARS



Pawan Bhosikar
(Chief Executive Officer)



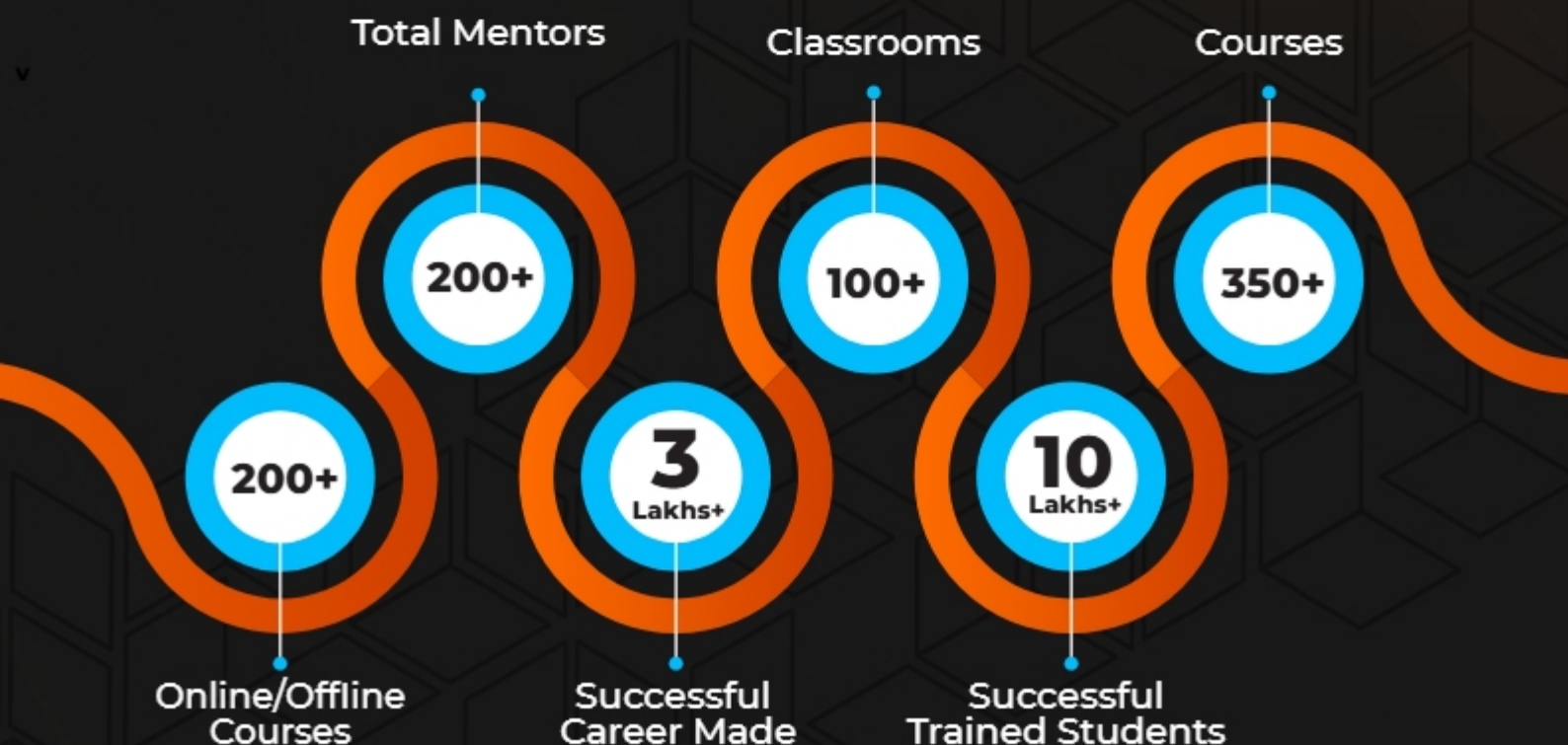
Nisha Mandot
(Chief Financial Officer)

ABOUT US

"SevenMentor" has improvised a tendency to cope with all International Standards within their courses, by engaging both ends of the industry for students, professionals, and individuals to corporate clients. The organization conjointly gives chance within their educational programs to meet the needs with projected desires of quick developing networking trade.

"SevenMentor" education techniques allow honing the abilities of the Networking experts from Industries which allow them to be equipped with the updated technology and standards of their operating environment. The group is a center for technical excellence with the kingdom of the art lab centers & a properly exquisite curriculum which gives them exposure in advance and enables them to be specific inside the certification enterprise.

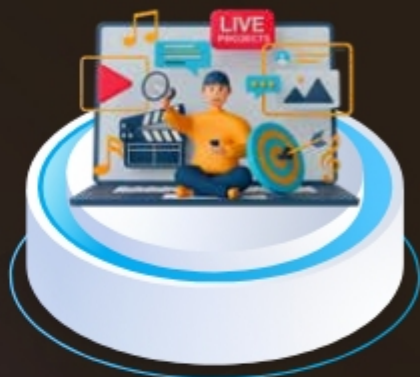
AT A GLANCE, OUR STATISTICS SPEAK VOLUMES



COURSE HIGHLIGHTS



**ONLINE AND
CLASSROOM MODE**



LIVE PROJECTS



**PROFESSIONAL
CERTIFICATES**



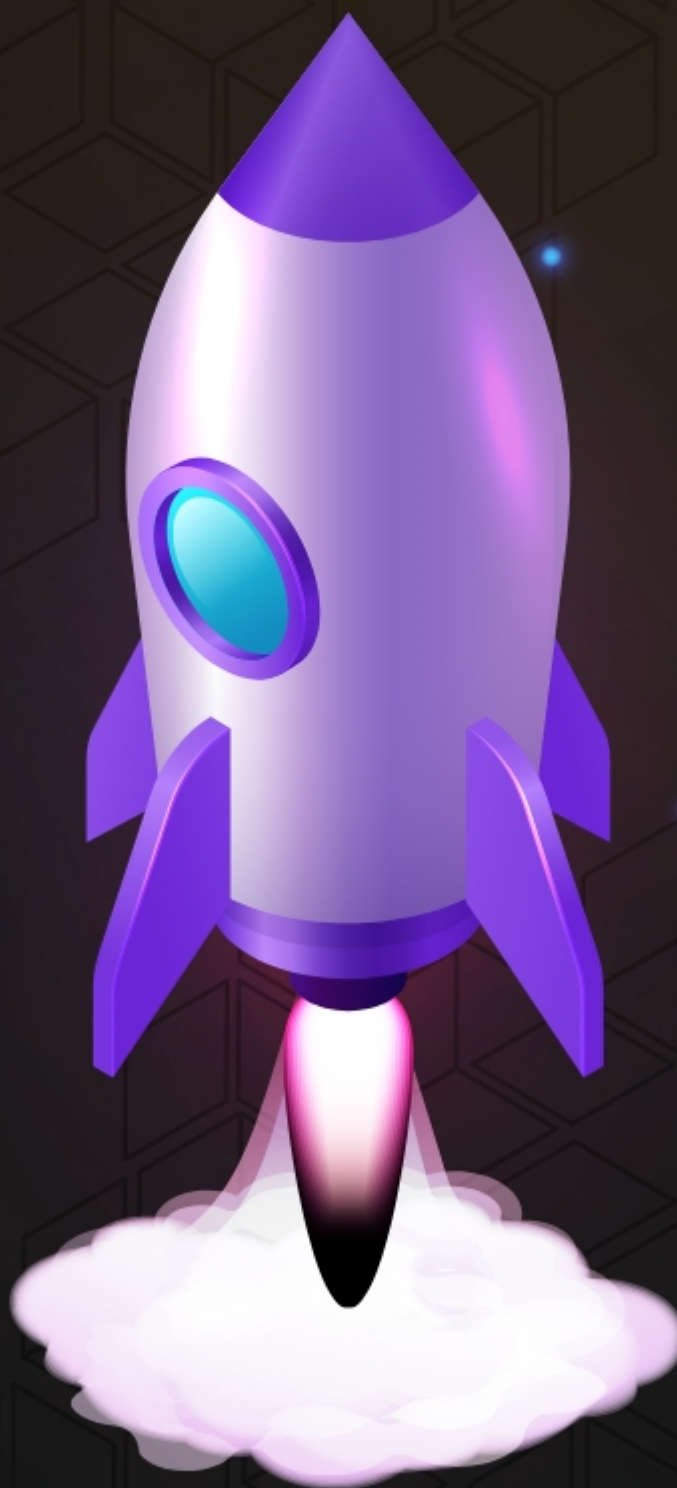
**100% JOB CALLS
ASSISTANCE**



MOCK INTERVIEW



**MULTIPLE CAREER
OPPORTUNITIES**





RESUME
PRESENTATION



INTERVIEW
Q&A



PLACEMENT
TRAINING



ELIGIBILITY
CRITERIA



MOCK
INTERVIEWS



APTITUDE
TEST



SCHEDULING
INTERVIEWS



PLACEMENT AT
YOUR DREAM JOB

CAMPUS DRIVE

SECURE A POSITION IN LEADING COMPANIES



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ROUTE TO SUCCESS

CONFUSED WHAT TO DO IN CAREER..?



1

2

CHOOSE SEVENMENTOR



CAREER COUNSELING WITH EXPERTS



3

4

ONLINE/CLASSROOM EXPERT TRAINING



5

WHAT WILL YOU GET

- Industry-Based Projects
- Resume Preparation
- Soft Skills Development
- Mock Interview Sessions



6

CHARTING NEW PATHS: CAMPUS DRIVE



7

SECURE YOUR SPOT IN LEADING MNCS



TOOLS & TECHNOLOGIES COVERED



CLOUD COMPUTING COURSE CURRICULUM



AWS – Amazon Web services syllabus

✓ 1. Cloud Concepts

AWS Cloud

- What is cloud computing? (IaaS, PaaS, SaaS)
- Benefits of AWS Cloud (Scalability, Cost Savings, Security, Agility)
- AWS Global Infrastructure (Regions, Availability Zones, Edge Locations)

AWS Cloud Architecture Principles

- High Availability (Multi-AZ, Load Balancing)
- Fault Tolerance & Disaster Recovery (Backups, Replication)
- Elasticity & Scalability (Auto Scaling, Serverless)

AWS Shared Responsibility Model

- AWS vs. Customer Responsibilities
- Security of the Cloud vs. Security in the Cloud

✓ 2. Security and Compliance

AWS Security Basics

- Identity and Access Management (IAM)
- Multi-Factor Authentication (MFA)
- AWS Organizations and Service Control Policies (SCPs)

Compliance and Governance

- AWS Well-Architected Framework (Security Pillar)

AWS Security Services

- AWS Shield, AWS WAF
- Amazon GuardDuty (Threat Detection)
- AWS Key Management Service (KMS) for Encryption

✓ 3. Technology

AWS Core Services Overview

- Compute: EC2, Lambda
- Storage: S3, EBS, EFS, Glacier
- Database: RDS (Aurora, MySQL), DynamoDB, Redshift
- Networking: VPC, Route 53, Direct Connect, AWS Global Accelerator

AWS Management Tools

- AWS Management Console
- AWS Command Line Interface (CLI)
- AWS CloudFormation (Infrastructure as Code)

Monitoring and Performance Management

- Amazon CloudWatch (Metrics, Logs, Alarms)
- AWS Trusted Advisor (Best Practice Recommendations)
- AWS Config for Compliance Monitoring

✓ 4. Billing and Pricing

AWS Pricing Models

- On-Demand, Reserved, and Spot Instances
- Free Tier, Pay-As-You-Go, Savings Plans

AWS Billing & Cost Management Tools

- AWS Pricing Calculator
- AWS Cost Explorer & Budgets
- AWS Total Cost of Ownership (TCO) Calculator

AWS Support Plans

- Basic, Developer, Business, and Enterprise Support Tiers
- AWS Trusted Advisor for Cost Optimization

✓ 5. Design Secure Architectures

AWS Security Best Practices

- Shared Responsibility Model
- Security services: AWS IAM, KMS, Secrets Manager, AWS Shield, AWS WAF
- Implementing least privilege with IAM roles, policies, groups
- Multi-Factor Authentication (MFA)
- Data encryption at rest (KMS, SSE, CMK) and in transit (TLS, SSL)

Networking Security

- Amazon VPC design, subnets, security groups, NACLs
- VPN, AWS Direct Connect, and PrivateLink
- AWS Firewall Manager, AWS Security Hub
- DDoS protection with AWS Shield
- Identity federation using IAM, AWS SSO

Monitoring & Compliance

- AWS CloudTrail, AWS Config
- AWS Inspector, GuardDuty
- AWS Well-Architected Framework security pillar

✓ 6. Design Resilient Architectures

High Availability & Fault Tolerance

- Multi-AZ vs. Multi-Region deployments
- Amazon Route 53 for DNS failover
- Load balancing using ALB, NLB, and CLB
- Auto Scaling groups (ASG) with dynamic and scheduled scaling
- AWS Global Accelerator

Storage Resilience

- Amazon S3 durability and replication
- S3 storage classes and lifecycle policies
- AWS Backup and disaster recovery strategies

Compute Resilience

- Elastic IPs, Spot & Reserved Instances
- AWS Lambda and serverless design patterns
- ECS vs. EKS for containerized applications

Messaging services – SNS and SQS

- Working of SNS and SQS
- Important Components of SNS and SQS.
- Creating and Managing Topics in SNS and SQS
- Adding Subscriber in SNS.

Project Preparation

Azure Training Syllabus(AZ-104)

✓ Manage Azure Identities and Governance

Manage Microsoft 365 Users and Groups

- Create users and groups
- Manage user and group properties
- Manage licenses in Microsoft 365
- Manage external users
- Configure self-service password reset (SSPR)

Manage Access to Azure Resources

- Manage built-in Azure roles
- Assign roles at different scopes
- Interpret access assignments

Manage Azure Subscriptions and Governance

- Implement and manage Azure Policy
- Configure resource locks
- Apply and manage tags on resources
- Manage resource groups
- Manage subscriptions
- Manage costs by using alerts, budgets, and Azure Advisor recommendations
- Configure management groups

✓ 7. Design High-Performing Architectures

Compute Performance

- Choosing the right EC2 instance type (General Purpose, Compute Optimized, etc.)
- AWS Lambda scaling and optimization
- AWS Fargate vs. EC2 for containers

Storage Performance

- Amazon EBS vs. Instance Store
- Amazon Elastic File System (EFS)

Database Performance

- Amazon RDS (Aurora, MySQL, PostgreSQL, Oracle, SQL Server)
- DynamoDB (On-Demand, Provisioned Capacity, DAX)
- Amazon Redshift for data warehousing
- Amazon ElastiCache (Redis, Memcached)

✓ Implement and Manage Storage

Configure Access to Storage

- Configure Azure Storage firewalls and virtual networks
- Create and use shared access signature (SAS) tokens
- Configure stored access policies
- Manage access keys
- Configure identity-based access for Azure Files

Configure and Manage Storage Accounts

- Create and configure storage accounts
- Configure Azure Storage redundancy
- Configure object replication
- Configure storage account encryption
- Manage data by using Azure Storage Explorer and AzCopy

Configure Azure Files and Azure Blob Storage

- Create and configure a file share in Azure Storage
- Create and configure a container in Blob Storage
- Configure storage tiers
- Configure snapshots and soft delete for Azure Files
- Configure blob lifecycle management
- Configure blob versioning

Automate Deployment of Resources

- Interpret and modify Azure Resource Manager templates or Bicep files
- Deploy resources using templates or Bicep files
- Export a deployment as a template or convert a template to a Bicep file

Create and Configure Virtual Machines

- Create a virtual machine
- Configure Azure Disk Encryption
- Move a virtual machine
- Manage virtual machine sizes and disks
- Deploy virtual machines to availability zones and sets
- Deploy and configure Azure Virtual Machine Scale Sets

Provision and Manage Containers

- Create and manage an Azure container registry
- Provision containers using Azure Container Instances and Azure Container Apps
- Manage sizing and scaling for containers

Create and Configure Azure App Service

- Provision an App Service plan
- Configure scaling, certificates, TLS, and backup for an App Service
- Configure networking settings, deployment slots, and custom DNS

Configure and Manage Virtual Networks in Azure

- Create and configure virtual networks and subnets
- Create and configure virtual network peering
- Configure public IP addresses
- Configure user-defined network routes
- Troubleshoot network connectivity

✓ Implement and Manage Virtual Networking

Configure Secure Access to Virtual Networks

- Create and configure network security groups (NSGs) and application security groups
- Evaluate effective security rules in NSGs
- Implement Azure Bastion
- Configure service endpoints for Azure PaaS
- Configure private endpoints for Azure PaaS

Configure Name Resolution and Load Balancing

- Configure Azure DNS
- Configure an internal or public load balancer
- Troubleshoot load balancing

Monitor and Maintain Azure Resources

Monitor Resources in Azure

- Interpret metrics in Azure Monitor
- Configure log settings in Azure Monitor
- Query and analyze logs in Azure Monitor
- Set up alert rules, action groups, and alert processing rules in Azure Monitor
- Configure and interpret monitoring of virtual machines, storage accounts, and networks using Azure Monitor Insights
- Use Azure Network Watcher and Connection Monitor

Implement Backup and Recovery

- Create a Recovery Services vault
- Create an Azure Backup vault
- Create and configure a backup policy
- Perform backup and restore operations using Azure Backup
- Configure Azure Site Recovery for Azure resources
- Perform a failover to a secondary region using Site Recovery

Configure and Interpret Reports and Alerts for Backups

GCP - Associate Cloud Engineer - Syllabus



Module 1: Overview Cloud & Google Cloud Platform

- 1: Cloud Overview & Characteristics
- 2: Cloud Service Model (IaaS, PaaS, SaaS)
- 3: Cloud Deployment Model (Public, Private, Hybrid)
- 4: Google Cloud Platform (GCP) Infrastructure Overview
- 5: Create GCP Account & Console Overview
- 6: Organizations, Folders, Project, Resources & Billing
- 7: Google Cloud Architecture Framework

Module 2: Virtual Machines

- 1: Compute Engine (VM): Types & Options
- 2: VM Instance Lifecycle & Common Operations
- 3: Machine Types & Compute Options (vCPU and Memory) in Compute Engine
- 4: Images & Snapshots
- 5: Disk Types: Local SSD, Persistent & Balanced

Module 3: Virtual Networks

- 1: Virtual Private Cloud (VPC) & Types, Subnets
- 2: IP Addresses (Public/Private), NIC
- 3: Routes & Route Table
- 4: Firewalls
- 5: Network Topology Options

Module 4: Cloud IAM

- 1: IAM Basic: Authentication, Authorization & MFA
- 2: Roles, Members, Service Account, Policy
- 3: Resource Hierarchy
- 4: Cloud IAM Best Practices

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- 1: IAM Basic: Authentication, Authorization & MFA
- 2: Roles, Members, Service Account, Policy
- 3: Resource Hierarchy
- 4: Cloud IAM Best Practices

Module 5: Data Storage Services

- 1: Google Cloud Storage Overview & Structure
- 2: Storage Classes, Versioning & Lifecycle Policies
- 3: Cloud SQL for Database (MySQL, PostgreSQL and SQL Server)
- 4: Cloud Spanner: Fully Managed Relational DB
- 5: Cloud Datastore
- 6: Cloud Bigtable: NoSQL Big Data Service

Module 6: App Engine, Functions, Cloud Run

- 1: App Engine: Serverless Web Apps
- 2: App Engine Environments: Standard vs Flexible
- 3: Cloud Functions: Events & Triggers
- 4: Cloud Run: Serverless Containers

MODULE 7: RESOURCE MANAGEMENT

- 1: Cloud Resource Manager Overview
- 2: Quotas, Labels, Names & Billing

Module 8: Resource Monitoring

- 1: Stackdriver: Cloud Monitoring & Logging
- 2: Logging, Error Reporting, Tracing, Debugging

MODULE 9: INTERCONNECTING NETWORKS

- 1: Virtual Private Network (VPN) & Its Types
- 2: VPC Peering (Public & Private)
- 3: Cloud DNS, Cloud Interconnect & Cloud Router

MODULE 10: LOAD BALANCING & AUTOSCALING

- 1: Load Balancing Types: Internal, External, Global & Regional
- 2: HTTPS, Network, SSL & TCP Load Balancers
- 3: Cross-Region and Content-Based Load Balancing
- 4: Autoscaling Policies & Configuration

MODULE 11: GOOGLE KUBERNETES ENGINE

- 1: Microservices, Containers, Docker & Kubernetes
- 2: GCP Kubernetes Engine (GKE), Understand The Relationship Between Kubernetes and Google Kubernetes Engine (GKE)
- 3: Kubernetes Architecture: Clusters, Node, Node Pools, Pods, Services
- 4: Deploy & Manage Workloads on GKE

MODULE 12: MAINTENANCE & MONITORING

- 1: Capacity Planning and Cost Optimization
- 2: Deployment, Monitoring and Alerting, and Incident Response
- 3: Monitoring and Alerting

MODULE 13: CLOUD MIGRATIONS

- 1: Understanding Migration Use Cases
- 2: Understanding Migration Tools and Process
- 3: Migrating Google Instance to AWS

MASTER IN CLOUD COMPUTING



YOUR DREAM
JOB IS AHEAD

COURSE
EXAM

CASE
STUDY

ADVANCE
SKILLS

INDUSTRY
EXPERT TRAINING

PROFILE BUILDING

ENROLL IN
SEVENMENTOR

Finance & Banking

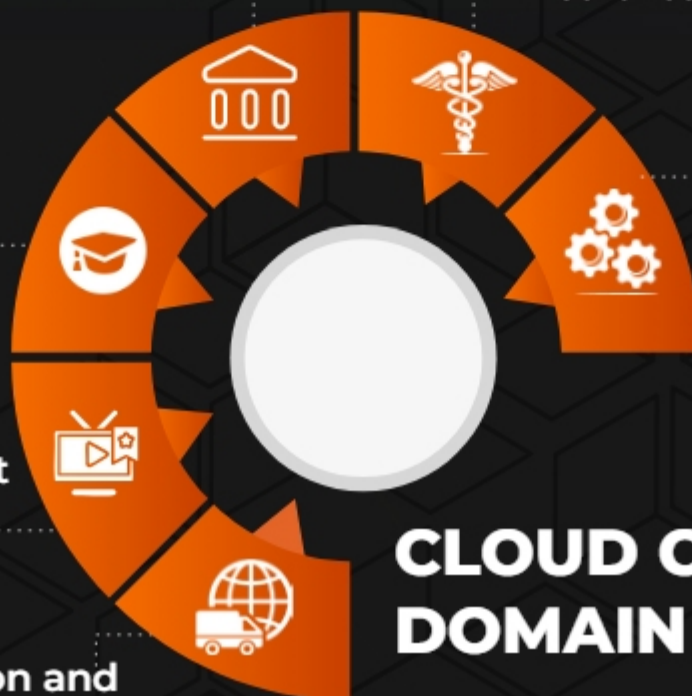
Healthcare

Education

Manufacturing

Media and
Entertainment

Transportation and
Logistics



CLOUD COMPUTING DOMAIN KNOWLEDGE

YOUR FUTURE AS A CLOUD COMPUTING



SALARY RANGE

3 - 6 LPA

10 - 15 LPA

Upto 24 LPA

0 Yrs

4 Yrs

8 Yrs

2 Yrs

6 Yrs

6 - 10 LPA

15 - 24 LPA

JOB METER

Cloud Architect

1,22,911 Jobs

Cloud Enginee

1,10,239 Jobs

DevOps Engineer
(Multi-Cloud)

2,31,300 Jobs

Cloud Security Enginee

2,12,462 Jobs

Cloud Operations
Manager

71,499 Jobs

Site Reliability
Engineer (SRE)

2,18,644 Jobs

Cloud Consultant

59,914 Jobs

Cloud Systems
Administrator

80,039 Jobs

Cloud Application
Developer

1,12,399 Jobs

Cloud Migration
Specialist

40,953 Job

JOB ROLES FOR CLOUD COMPUTING

CLOUD ARCHITECTURE
& ENGINEERING

DATA & AI/ML
IN CLOUD

CLOUD DEVELOPMENT
& DEVOPS

CLOUD SUPPORT
& OPERATIONS

CLOUD NETWORKING
& INFRASTRUCTURE

CLOUD SALES &
CONSULTING

CLOUD SECURITY
& COMPLIANCE

CLOUD SECURITY
ANALYST

INDUSTRY BASED PROJECT (AWS)



Hands-on industry-based project by SevenMentor & Training to enhance practical skills and real-world expertise

PROJECT1: STATIC WEBSITE HOSTING ON S3 – HOST A SIMPLE HTML/CSS WEBSITE ON S3 WITH CLOUDFRONT.



PROJECT2: SERVERLESS PORTFOLIO WEBSITE – USE AWS LAMBDA, API GATEWAY, DYNAMODB, AND S3 TO CREATE A PERSONAL WEBSITE.



PROJECT3: MULTI-TIER ARCHITECTURE – DEPLOY A WEB APP WITH EC2 (FRONTEND), RDS (DATABASE), AND A LOAD BALANCER.



PROJECT4: VPC SETUP WITH SECURITY GROUPS – CREATE A SECURE VIRTUAL PRIVATE CLOUD (VPC) WITH SUBNETS, NAT GATEWAY, AND EC2 INSTANCES.



PROJECT5: IAM ROLE & POLICY MANAGEMENT – IMPLEMENT A LEAST-PRIVILEGE ACCESS POLICY USING IAM. TOOLS - EC2 , VPC , COLOUDWATCH , AWS BACKUP , LOADBALANCER , AUTOSCALING. SNS ETC "



INDUSTRY BASED PROJECT (AZURE)



Hands-on industry-based project by SevenMentor & Training
to enhance practical skills and real-world expertise

**PROJECT1: HOSTING A WEB SERVER ON
LINUX AND WIN USING AZURE CLOUD
VIRTUAL MACHINES**



**PROJECT2: DEPLOY WEBAPPS ON
AZURE CLOUD.**



**PROJECT3: SETTING UP AND CONFIGURING
AZURE VIRTUAL NETWORKS (VNET)**



**PROJECT4: DISASTER RECOVERY AND SITE
RECOVERY WITH AZURE SITE RECOVERY (ASR)**



**PROJECT5: PROJECT 5: BUILDING AN AZURE
STORAGE SOLUTION"**



INDUSTRY BASED PROJECT (GCP)



Hands-on industry-based project by SevenMentor & Training
to enhance practical skills and real-world expertise

PROJECT1: HOST WEB/APP TO HANDLE
HEAVY WORKLOAD



PROJECT2: AUTOMATED APP DEPLOYMENT
IN CONTAINER



PROJECT3: CONTINUOUS INTEGRATION AND
CONTINUOUS DEPLOYMENT USING GOOGLE
CLOUD PLATFORM



PROJECT4: CLOUD STORAGE SQL
DATABASE MANAGEMENT



PROJECT5: AUTO APP DEPLOYMENT
OVER GKE"

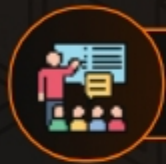


WHY CHOOSE SEVENMENTOR

Empowering Careers with Industry-Ready Skills



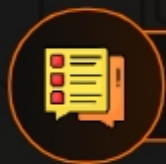
Flexible EMI Plans



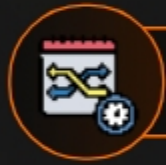
Industry Experienced Trainers



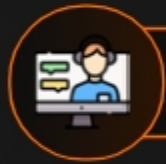
Live Projects With Hands-on Experience



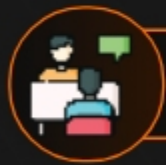
Real World Topics



Flexible Scheduling



Online, Classroom & Hybrid Batches



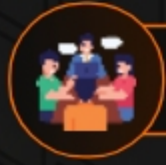
1:1 Mentorship when required



Affordable Programs Tailored to Your Needs

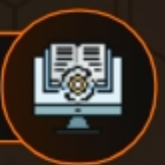


Class Recordings for Missed Classes



Workshops & Seminars with Industry Experts

Adaptive LMS



Free Wifi Facilities



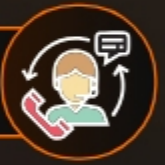
Be Different With Master Certificate



Placement Drives



Interview Calls Assistance & Mock Sessions



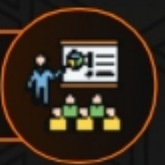
Weekday and Weekend Batches



Ongoing Career Support



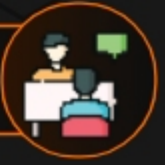
Latest Market Tech & Practical Training



1 Year FREE Repeat Option



Unlimited Interview Calls



TESTIMONIALS OF OUR STUDENTS



I recently took SevenMentor Salesforce classes, and I must say, the experience was incredibly enriching. The courses cater to users at all levels, covering everything from basic CRM functionalities to advanced customization and automation. The instructors are not only knowledgeable but also offer practical insights that are applicable to real-world scenarios, which made the learning process even more engaging. The class materials are well-organized, featuring interactive exercises that effectively reinforce key concepts. I appreciated how hands-on the experience was, allowing me to apply what I learned in a practical context.

Sourabh Teli



The course materials and resources provided were excellent. SevenMentor really cares about their students' learning experience and this puts their students at a tremendous advantage. I have extensive experience due to learning at SevenMentor and now I'm able to work on my own UI designs. Completing the UI/UX course at SevenMentor gave me a significant career boost. I was able to land a job shortly after finishing the UI/UX certification course from SevenMentor Institute. I urge everyone to join this course if there are serious about their career.

Chetan Sawant



The Salesforce course at SevenMentor is truly top-notch. The instructors are not only experts in their field, but they also bring a wealth of real-world experience to the classroom. This made the learning process much more engaging and relevant. They provided insights that went beyond the textbook, helping me understand the practical applications of Salesforce. Their dedication to teaching and willingness to answer questions made a significant difference in my learning experience.

Suvrana Savale



Excellent Training & Placement Support I am happy to share that I got placed successfully! The trainers were highly knowledgeable and provided in-depth explanations, making even complex topics easy to understand. The hands-on projects and real-world scenarios helped me gain confidence in my skills. The placement team was very supportive, providing resume-building tips, interview guidance, and job opportunities. Their constant follow-ups and mock interviews really helped me secure a good job.

Shravani Pawar



As a student at SevenMentor Institute, I had a great learning experience. The trainers were knowledgeable and provided hands-on practical sessions, making complex topics easy to understand. The staff was supportive, and the placement assistance helped me secure multiple interview opportunities. Overall, it's a good choice for skill development and career growth.

Darshan Chandgude



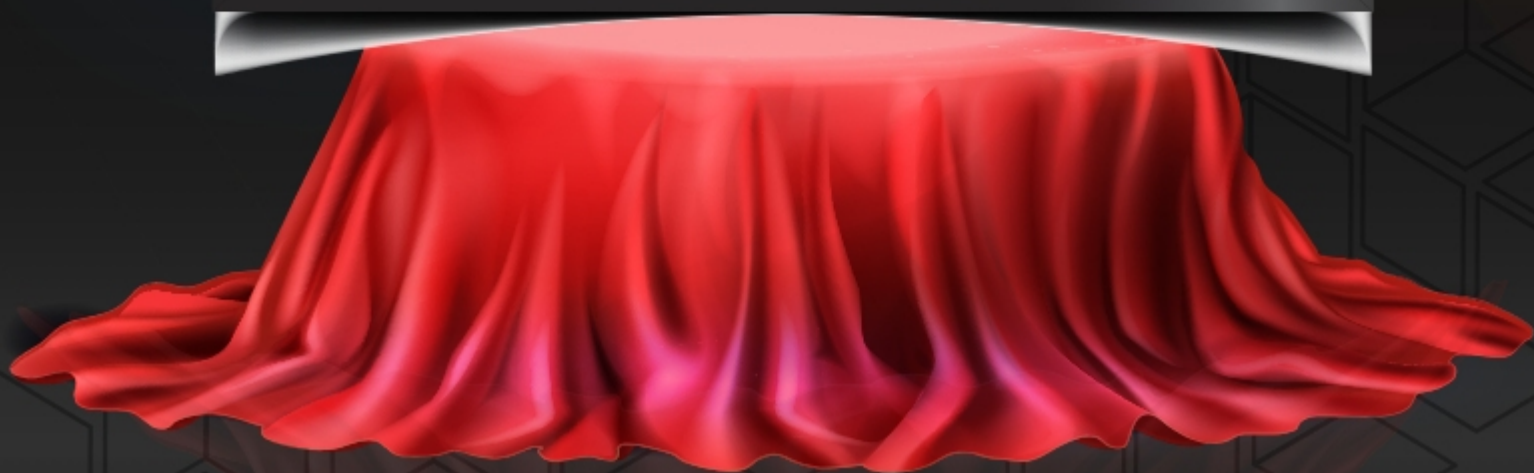
"I had an incredible learning experience at SevenMentor! Their IT classes are well-structured, interactive, and taught by expert instructors. The curriculum is up-to-date and relevant to the industry. I gained hands-on experience and confidence in my skills. Highly recommend SevenMentor for anyone looking to upskill or reskill in IT! 5/5 stars.

MUSA SHAIKH

GLOBAL CERTIFICATION FROM SEVENMENTOR



SevenMentor provides globally recognized certification programs designed to help individuals enhance their knowledge, skills, and career prospects. Our certifications validate the competence and expertise in various fields, including IT, business management, digital marketing, and more. Achieving a SevenMentor certification offers a competitive edge and ensures your capability in your chosen domain.



WHY SHOULD YOU JOIN THIS PROGRAM?



Our 100% Job Assurance Program guarantees that you will secure a job as a data scientist. With access to over 500 leading partner companies, we ensure you have ample opportunities to land your ideal role.

The program is structured to provide comprehensive training, equipping you with the technical skills, real-world experience, and industry insights needed to excel in the field of data science. Additionally, you'll receive ongoing support, including job placement assistance and career coaching, to help you navigate the hiring process. With our program, you're fully prepared to succeed in the competitive job market and launch your data science career.



PLACEMENT TEAM

Our placement staff is committed to your IT career success. With strong industry connections, market insights, and specialized assistance, we prepare you for a competitive job market and assist you in achieving your objectives. We offer individual resume development, mock interviews, and hands-on career coaching to help you stand out to top recruiters. Our dedication extends beyond placements; we provide you with the confidence and skills you need to succeed in your chosen field. At SevenMentor, your success is our priority!

CRM TEAM

At SevenMentor, our CRM team is committed to ensuring that every student has a positive and enjoyable experience. We attentively listen to your issues, answer your inquiries quickly, and provide personalized service that is suited to your specific requirements. Our team takes a student-first approach, ensuring that your needs are handled with professionalism, kindness, and attention to detail. Your satisfaction is our first priority, and we commit ourselves to supporting you every step of the way.

GET INFO OF OUR OTHER DOMAINS



020 7117 2515

Networking Department



020 7117 3035

Development Department



020 7117 1500

Data Science
And Ai Department



020 7117 1747

Softskills & Language
Department



020 7117 3116

SAP Department



020 7117 1757

Interior Design & Fashion
Department



020 7117 1727

HR Department



020 4855 6661

Placement Department

LOCATE US:



SHIVAJI NAGAR HEAD BRANCH

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Paduka Chowk, F.C Road, Shivaji Nagar, Pune,
Maharashtra - 411005

[GET THE DIRECTION](#)



Pimpri Chinchwad Branch

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KUNAL PLAZA off Mumbai Pune Highway
Chinchwad, Maharashtra 411019

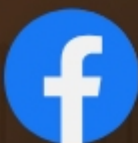
[GET THE DIRECTION](#)



Hadapsar Branch

Manisha Blitz, Office 34-35, 3rd floor, Near Shankarmath, Pune Solapur Hwy, Hadapsar, Pune - 411013

[GET THE DIRECTION](#)



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