



# cena

Mastering **Networking Fundamentals**  
& **Certification Preparation**



[www.sevenmentor.com](http://www.sevenmentor.com)



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# MEET OUR INSPIRING PILLARS



**Pawan Bhosikar**  
( Chief Executive Officer )



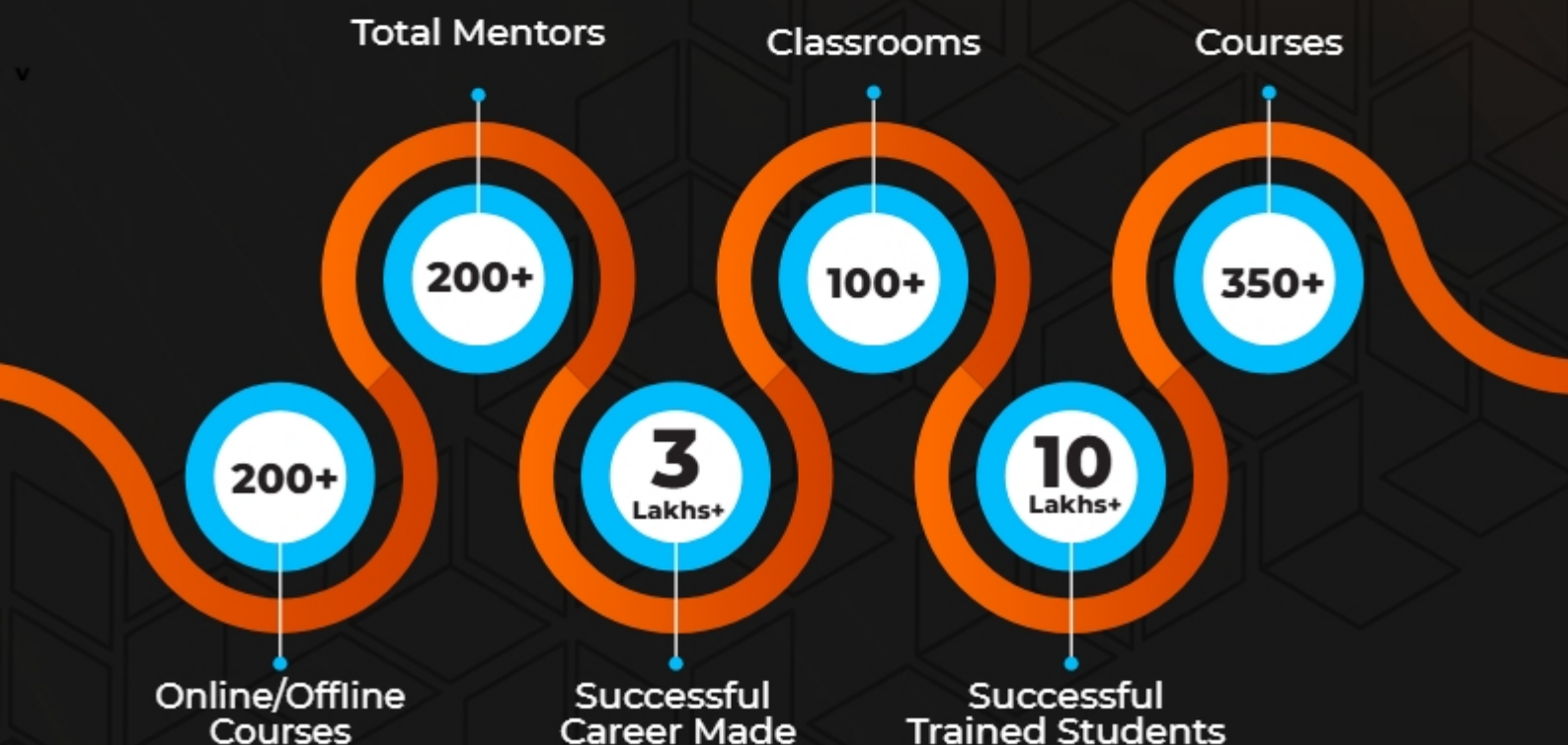
**Nisha Mandot**  
( Chief Financial Officer )

## 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.

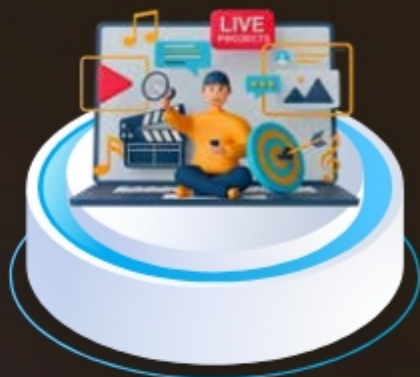
## AT A GLANCE, OUR STATISTICS SPEAK VOLUMES



# COURSE HIGHLIGHTS



**ONLINE AND  
CLASSROOM MODE**



**LIVE PROJECTS**



**PROFESSIONAL  
CERTIFICATES**



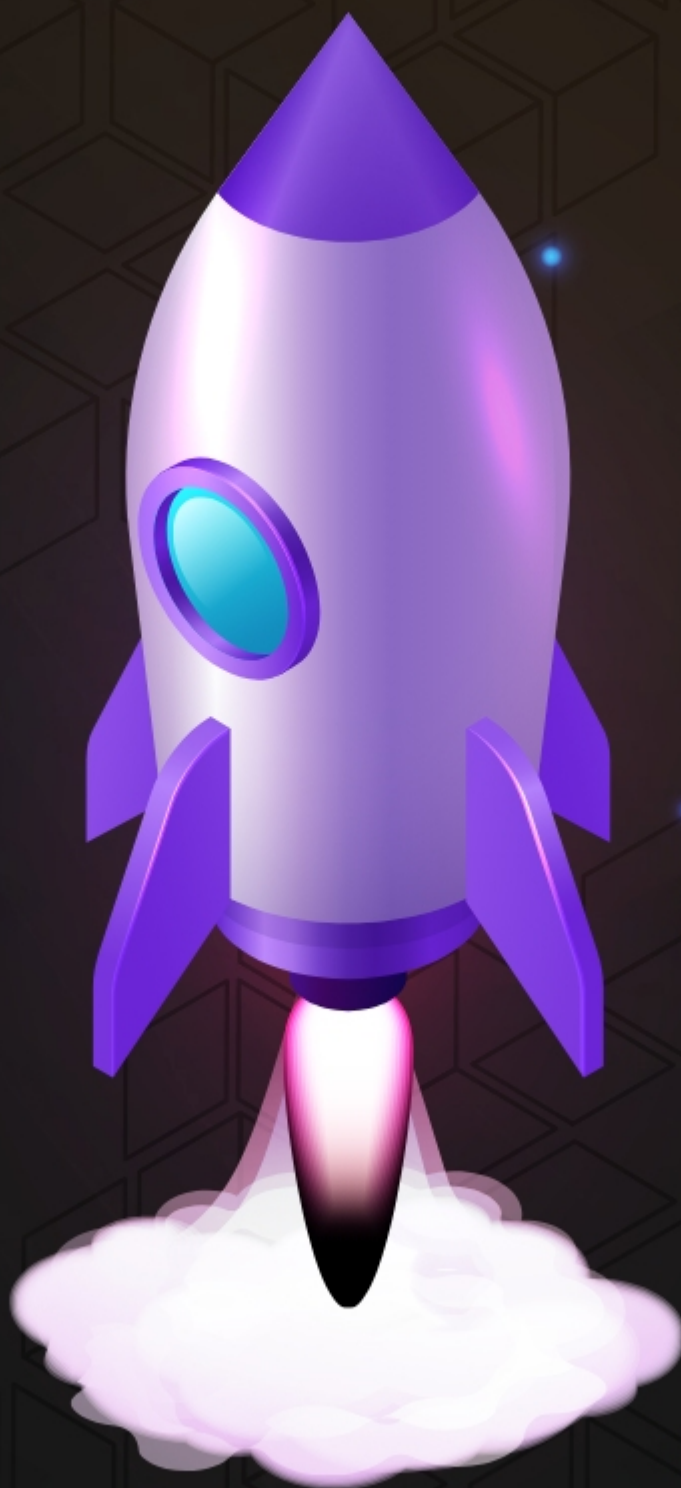
**100% JOB CALLS  
ASSISTANCE**



**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



## WHAT WILL YOU GET

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



5

6

## CHARTING NEW PATHS: CAMPUS DRIVE



## SECURE YOUR SPOT IN LEADING MNCS



7



# TOOLS & TECHNOLOGIES COVERED



# CCNA TRAINING COURSE CURRICULUM



## ✓ Introduction to Computer Hardware

### Computer Power Supply

- Understanding DC and AC voltage
- SMPS, Inverter
- Generator
- Spike guard
- UPS
- Stabilizer

### Computer Power Supply

- RAM
- Magnetic Hard Drive
- SSD
- ROM
- Cache memory
- Removable storage
- Virtual memory

### CPU

- Version
- Core
- Virtualization
- Cache Memory

### GPU

- Dedicated Graphics
- Integrated Graphics
- Graphic Card
- Pixel
- LED
- LCD

### I/O Ports

- Serial
- USB
- HDMI
- PCI
- SATA
- DVI
- Audio

### Printers

- Types of printers –
- Network Printer
- USB Printer
- Wireless Printer
- Laser-jet
- Inkjet
- Tank Printer
- Digital Printer

### Devices:

- Laptop
- Desktop
- Server machine

### Data Center Concepts

- Cooling techniques
- Cloud Data Center
- NAS
- SAN

### Troubleshooting

- BIOS
- Booting process

## ✓ Introduction to Computer Client and Server Operating Systems

### Types of Software:

- Client Operating System
- Server Operating System
- Utility Software
- Application software

### Client Operating Systems

- Windows Versions and history in detail.

### Server Operating Systems:

- Windows Versions and history in detail.

### Domain Network

- Introduction to Domain Network
- Active Directory
- Workgroup network.

### Device Drivers and Troubleshooting:

- Introduction
- Concept and troubleshooting.

### Hands-on Practical

- a. Disk management, file systems, formatting, partitions, Basic Disk, Dynamic Disk, RAID configuration.
- b. Device drivers: Installation and troubleshooting.
- c. Disk clean-up tools, defragmentation, error checking tools.
- d. Run Prompt, Command Prompt, Search tab, Control Panel. Network Configuration and management with troubleshooting.
- e. Users and Groups.
- f. NTFS and FAT File system comparison.

## ✓ Introduction to Computer Networks

### Introduction to Computer Networks

- Definition,
- Types of Networks,
- TI very important definitions,
- Network Interface Card,
- Introduction to IEEE,
- TIA,
- IANA,
- NIST organizations,
- Understanding bit and byte.

### Network Media

- Types of media (wired and wireless)
- Characteristics of Network Media
- Bandwidth calculation
- Coaxial cable in detail
- Twisted Pair cable in detail
- Fibre Cable in detail,
- Practical of crimping
- Colour code of TP cable
- Introduction to IoT services like CCTV
- Biometric machines
- Video Door Phones
- EPBX,
- VoIP
- PoE
- PSTN Network

## Network Devices:

- Types of devices
- End Devices
- Network Devices
- Amplifiers
- HUBs
- Switches
- Routers
- Firewalls
- Proxy
- Wireless Routers
- ADSL Routers
- PON Routers
- MODEM
- Internet types (Dial-up, Broadband, Leased Line)
- Wireless Internet, Mobile Networks (3G, 4G, 5G)
- USB Dongles.

## Network Topology:

- Types of Network Topology and Architecture -
- Bus Topology
- Ring Topology
- Star Topology
- Mesh Topology
- 2-Tier Architecture
- 3-Tier Architecture
- Spine and Leaf Architecture
- Wireless Topology
- Ad-hoc
- Infrastructure Topology
- ESS
- BSS
- Frequency
- IEEE Standards
- Redundancy
- Load balancing
- Fault tolerance

## Network Protocols

- Definition of TCP/IP Protocol stack,
- HTTP
- HTTP
- FTP
- SFTP
- SMTP
- POP3
- IMAP4
- DNS
- DHCP
- TELNET
- SSH
- SSL
- TCP
- UDP
- IPv4
- ARP
- ICMP
- CSMA/CD
- CSMA/CA

## Network Addressing

- Introduction to Addressing,
- Decimal number system,
- Hexadecimal number system,
- Binary number system,
- Conversion of number systems,
- MAC in detail,
- IPv4 in detail range,
- Subnet Mask,
- Network\_id, Host\_id,
- AND operation,
- Valid IP and Invalid IP,
- Public and Private IP,
- Broadcast Domain.

## DNS, DHCP, and ARP:

- Details on DHCP,
- Working of DHCP,
- Troubleshooting DHCP,
- Commands. Details on ARP,
- Working of ARP,
- Commands on ARP.
- Computer Naming techniques like
- FQDN,
- NetBIOS name,
- Explanations on name resolution
- techniques like broadcasting,
- Host File, WINS, DNS servers,
- working on DNS, Root server,
- Top-level DNS, Register DNS,
- Commands on DNS, and
- Troubleshooting.

## OSI Model

- Definition of OSI,
- Explanation of the 7 layers:
- Application Layer,
- Presentation Layer,
- Session Layer,
- Data-link Layer,
- Transport Layer,
- Network Layer,
- and Data-Link Layer.
- Protocols,
- devices,
- media,
- and addressing with reference
- to the OSI model.

## ✓ CCNA

## IPv4 Subnetting

- CIDR,
- Subnetting of Class A,
- B, and C IP ranges,
- Subnetting with VLSM.

## Router Hardware

- Introduction to Cisco Routers,
- Series of Cisco Routers,
- External router hardware components,
- Interface ports,
- WIC slot and card,
- NM slot and card,
- Ethernet ports,
- Power port,
- Console port,
- AUX port,
- Interface port number system

## Router Internal Hardware

- Introduction to internal components
- of Cisco Routers,
- RAM,
- NVRAM,
- FLASH,
- ROM,
- Motherboard,
- CPU,
- SMPS.

## Router IOS

- Connection of Cisco Router to Putty,
- Console Cable,
- AUX Connections,
- Detail on Putty software,
- Introduction to Packet Tracer,
- Understanding IOS modes (User mode,
- Privileged mode, Global Configuration
- mode), Understanding commands in
- privileged mode (SHOW, COPY,
- ERASE, DELETE), help and support
- commands of Router IOS, IP
- configuration, and troubleshooting
- of router interfaces, Router booting
- process, Securing Router, Password
- Recovery, ROM monitor mode, Router
- IOS Backup on TFTP, IOS Recovery,
- Configuration Backup, and Recovery.

## Router IOS

- Introduction to Routing Techniques
- like Static, Dynamic, Default Routing.
- Detailed study on Static Routing
- with practical examples.

## Dynamic Routing

- Introduction to Dynamic Routing,
- Understanding Dynamic Routing
- terminology (Metric value, Routing
- Algorithm, AS number, Interior
- Routing, Exterior Routing, AD values
- of Routing Protocols).

### **RIP Protocol:**

- Understanding terminology of RIP,
- Working of RIP, RIP timers, Route Poisoning, Practical configuration and testing of RIP protocol.

### **EIGRP Protocol**

- Understanding terminology of EIGRP, Working of EIGRP, Timers of EIGRP, DUAL, RTP, AS-number, Practical configuration and testing of EIGRP.

### **OSPF**

- Understanding terminology of OSPF, Working of OSPF, Timers of OSPF, DR, BDR, Router-ID, Area code, Practical configuration and testing of OSPF.

### **Switch Hardware**

- Introduction to internal components of Cisco Switches, RAM, NVRAM, FLASH, ROM, Motherboard, CPU, SMPS.

### **Switch IOS:**

- Connection of Cisco Switch to Putty,
- Console cable, AUX connections,
- Understanding IOS modes (User mode, Privileged mode, Global Configuration mode),
- Understanding commands in privileged mode (SHOW, COPY, ERASE, DELETE), help and support commands of Switch IOS, IP configuration, and troubleshooting of Switch interfaces, Interface modes (Access, Dynamic, Trunk mode), Switch booting process, Securing Switch, Password Recovery, ROM monitor mode, Switch IOS Backup on TFTP, IOS Recovery, Configuration Backup, and Recovery.

### **Switching Technology:**

- Port-security, VLAN, VTP,
- Inter-VLAN Routing, IEEE 802.1q
- Encapsulation, Redundancy,
- Load balancing, STP protocol, Ether-channel.

### **Access Control List (ACL):**

- Understanding the concepts and need for ACL, Types of ACL (Standard Named ACL, Standard Numbered ACL, Extended Named ACL, Extended Numbered ACL), Practical examples of ACL.

### **Network Address Translation (NAT):**

- Understanding the need for NAT,
- Working of NAT, Types of NAT (Static NAT, Dynamic NAT, Dynamic NAT Overload (PAT)), Practical examples of NAT.

### **IPv6 Addressing**

- Understanding IPv6 addressing,
- Types of IPv6 addresses (Link-local, Unique-Local, Global addressing),
- Practical examples of IPv6 configuration, IPv6 Routing (RIP, OSPF, EIGRP).

### **Quality of Service (QoS):**

- Understanding the need for QoS in VoIP networks, Data Classification techniques, Data Priority techniques, IPP, DSCP, Queue management, Policing, and Shaping, Trusted boundary.

### **WAN Technology**

- Understanding Internet, Leased lines,
- Legacy WAN technologies like ISDN,
- Frame Relay,
- ATM,
- SONET,
- VPN networks,
- Remote access VPN,
- Site-to-Site VPN,
- IPsec policies,
- Microsoft VPN, L2TP,
- PPTP,
- Authentication Protocols,
- Introduction to MPLS,
- SD-WAN,
- and SD-Access.

### **Network Security**

- Introduction to Firewalls and network security concepts

### **Wireless Network**

- Understanding Wireless Networks,
- Wireless Security Protocols (WEP, WPA, EAP), Integrity.

### **Network Automation**

- YML, XML, JSON.

# MASTER IN CCNA



YOUR DREAM  
JOB IS AHEAD

COURSE  
EXAM

CASE  
STUDY

ADVANCE  
SKILLS

INDUSTRY  
EXPERT TRAINING

PROFILE BUILDING

ENROLL IN  
SEVENMENTOR

Finance & Banking

Healthcare

Education

Manufacturing

IT

HR



## CCNA DOMAIN KNOWLEDGE

# YOUR FUTURE AS A CCNA



## 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

Network Support  
Engineer

1,22,911 Jobs

Technical Support  
Engineer

1,10,239 Jobs

Network Administrator

2,31,300 Jobs

System Administrator

2,12,462 Jobs

IT Support Specialist

71,499 Jobs

Network Engineer

2,18,644 Jobs

Network Security  
Engineer

59,914 Jobs

VoIP Engineer

80,039 Jobs

Senior Network  
Engineer

1,12,399 Jobs

Cybersecurity Analyst

40,953 Job

## JOB ROLES FOR CCNA

NOC ENGINEER

NETWORK  
ADMINISTRATOR

NETWORK SUPPORT  
ENGINEER

L1 SUPPORT  
ENGINEERS

FIELD SUPPORT  
ENGINEER

DESKTOP ENGINEER

NETWORK SECURITY  
ENGINEER

VOIP ENGINEERS

# INDUSTRY BASED PROJECT



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



**CONFIGURING & TROUBLESHOOTING  
A SMALL NETWORK**



**IMPLEMENTING VLANS &  
TRUNKING**



**CONFIGURING & SECURING  
A WIRELESS NETWORK**



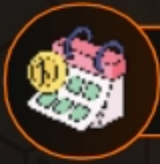
**IMPLEMENTING  
ROUTING PROTOCOLS**



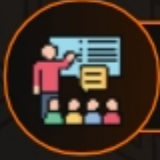
**CONFIGURING & TROUBLESHOOTING  
NETWORK SECURITY.**

# WHY CHOOSE SEVENMENTOR

Empowering Careers with Industry-Ready Skills



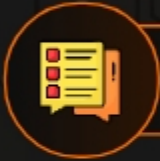
Flexible EMI Plans



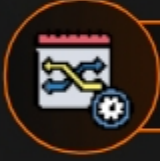
Industry Experienced Trainers



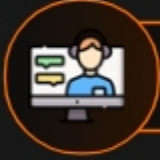
Live Projects With Hands-on Experience



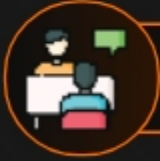
Real World Topics



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

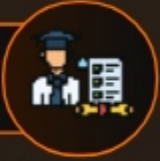
Adaptive LMS



Free Wifi Facilities



Be Different With Master Certificate



Placement Drives



Interview Calls Assistance & Mock Sessions



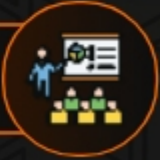
Weekday and Weekend Batches



Ongoing Career Support



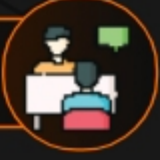
Latest Market Tech & Practical Training



1 Year FREE Repeat Option



Unlimited Interview Calls



# TESTIMONIALS OF OUR STUDENTS



I recently took Seven Mentor 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**



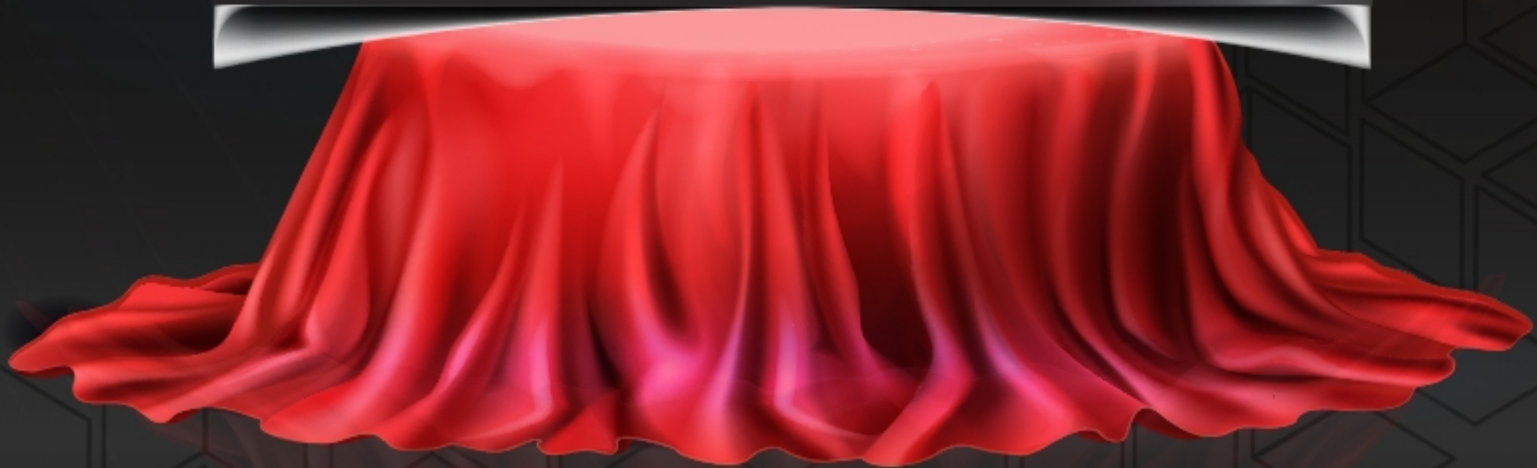
"I had an incredible learning experience at SevenMentor! Their IT classes are well-structured, interactive, and taught by expert instructors. The curriculum is up-to-date and relevant to the industry. I gained hands-on experience and confidence in my skills. Highly recommend SevenMentor for anyone looking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

09/A Wing, Shreenath Plaza, Dryaneshwar  
Paduka Chowk, F.C Road, Shivaji Nagar, Pune,  
Maharashtra - 411005

[GET THE DIRECTION](#)



### Pimpri Chinchwad Branch

Office number 38 wing A and B, 3rd Floor,  
KUNAL PLAZA off Mumbai Pune Highway  
Chinchwad, Maharashtra 411019

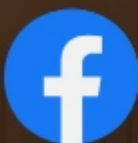
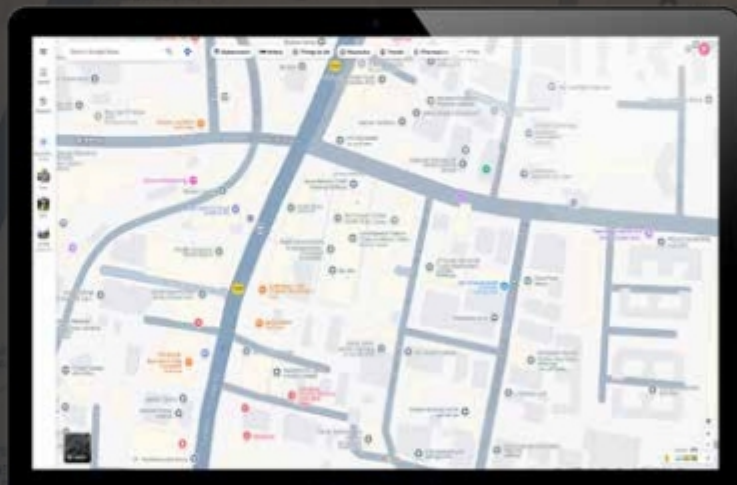
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### Hadapsar Branch

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

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