



DEVOPS CERTIFICATION TRAINING COURSE

Master DevOps skills and take your career to the next level!



10 Million
Learners



1:1 Personalized
Mentorship



55% Average
Salary Hike

DevOps Certification Training Course

This DevOps certification training course is created by industry experts to help you gain proficiency in the DevOps domain. You will learn DevOps tools such as Git, Puppet, Jenkins, SVN, Maven, and more.

Hottest Job of 21st Century



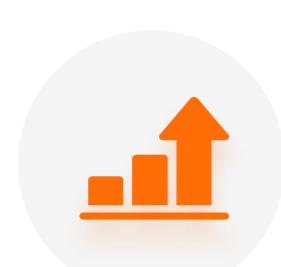
1.1 Million Job Postings

There is a global estimate of 1.1 million job postings for DevOps roles by 2022



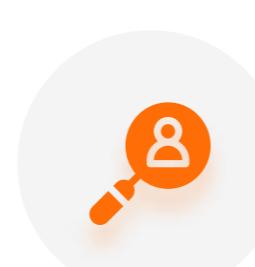
Skill Development

DevOps professionals are equipped with various relevant skills, fetching lucrative job offers



Growing DevOps Industry

35.5% CAGR in the global DevOps industry



Future-oriented Career

DevOps is a budding field; a head start will prove to be beneficial



Popular Degree

43% of DevOps professionals have a Master's degree



High Demand

By 2022, India and US will face a demand-supply gap of 460,000 DevOps professionals

Our Credentials



10 Million+

Aspiring Active Students



1,000+

Industry-expert Instructors



400+

Hiring Partners



500+

Corporates Upskilled



55%

Average Salary Hike



155+

Countries' Learners

About Program

This DevOps certification training will help you gain the required skills such as Continuous Integration, Delivery and Deployment, Infrastructure-as-a-Code, and more using DevOps tools such as Git, SVN, Docker, Docker Swarm, Kubernetes, Puppet, etc., through industry-relevant projects and assignments.

Key Highlights

- ✓ 40 Hrs Instructor-Led Training
- ✓ 60 Hrs Project & Exercises
- ✓ Job Assistance
- ✓ Lifetime Free Upgradation
- ✓ 30 Hrs Self-paced Videos
- ✓ Intellipaat Certification
- ✓ Flexible Schedule
- ✓ Mentor Support

Program Pedagogy

Instructor-led Training

Get trained by top industry experts

1:1 Personalized Learning

Hands-on exercises, project work, quizzes, and capstone projects

Self-paced videos

Learn at your own pace with world-class content

Projects and Exercises

Get real-world experience through projects

Hackathons

Get a sense of how real projects are built

Peer Networking and Group Learning

Improve your professional network and learn from peers

Gamified Learning

Get involved in group activities to solve real-world problems

Program Curriculum

```
modifier_ob.select=1  
 bpy.context.scene.objects.active = modifier_ob  
 print("Selected" + str(modifier_ob)) # modifier ob  
 mirror_ob.select = 0  
 bpy.ops.object.mirror(mirror_type='XY')
```

Module 1

Introduction to DevOps

- Lab Setup and Account Creation for Cloud Services
- Program Introduction and Introduction to Elastic Cloud Compute – EC2
- Introduction to DevOps
- Difference between Software Development life cycle and DevOps
- Traditional Models for Software Development vs DevOps
- Introduction to DevOps Lifecycle and various tools in DevOps

Module 2

Version Control

- Introduction to version control and its various types
- What is SVN in version control
- Understanding GIT and GIT Lifecycle
- Various GIT commands
- Concept of Branches in GIT
- GIT Operations like merging
- How to resolve conflicts in GIT
- Workflow in GIT
- Hands-on Exercise

Module 3

Docker for Containerization

- Introduction to Docker
- Understanding various components and operations of Docker
- Introduction to DockerHub and Containerization
- Introduction to Dockerfile and Docker Volumes
- Understanding Docker Compose
- Hands-on Exercise

Module 4

Puppet and Ansible for Configuration Management

- Understanding Configuration Management
- Ansible and Puppet Architecture
- Difference between Ansible and Puppet
- Slave Master set up using Ansible and Puppet
- Puppet manifests and modules
- Ansible playbook and roles
- Applying configurations using Ansible and Puppet
- Hands-on Exercises

Module 5

Selenium for Continuous Testing

- Introduction to Continuous Testing
- Significance of Continuous Testing in DevOps
- Introduction to Maven And Selenium for Testing
- Headless Browser Automation
- Defining Test Cases and Assertion
- Automation Testing Using Selenium

Module 6

Jenkins for Continuous Integration

- Introduction to CI/CD Pipelines
- Understanding Continuous Integration with Jenkins
- Introduction to Jenkins Architecture
- Creating End-to-end Automated CI/CD Pipeline using Jenkins for Continuous Integration
- Hands-on Exercise

Module 7

Kubernetes for Continuous Orchestration

- Understanding Kubernetes from Scratch
- Difference between Docker and Kubernetes
- Introduction to Kubernetes Architecture
- Services and Ingress in Kubernetes
- What are volumes and it's various types in Kubernetes
- Secrets in Kubernetes
- Understanding Kubernetes Dashboard for continuous monitoring
- Hands-on Exercise

Module 8

ELK for Continuous Monitoring

- Overview and Introduction to ELK
- Understanding Continuous Monitoring and Flow of ELK
- Components and Features of ELK
- Set up and Usage of ELK
- Hands-on Exercise

Module 9

Terraform and Workspaces

- Understanding Infrastructure as a Code
- Difference between Configuration Management and Infrastructure as a Code
- Understanding Terraform on Cloud

Program Curriculum

- How to deploy an end-to-end Architecture using Terraform
- Hands-on Exercise

Skills to Master

- Git
- Maven
- Docker Swarm
- DevOps
- Puppet and Ansible
- Nagios
- Jenkins
- Kubernetes
- Terraform

Tools to Master



Course Projects

Projects cover the following industries:



Retail



Social Media



Supply Chain



Entrepreneurship



E-commerce



Banking



Healthcare



Insurance

Creating CI/CD Pipeline to build and test a Website

Test and build a website by using CI/CD Pipeline effectively. The project requires the learners to create a CI/CD Pipeline to integrate DevOps tools including, either one or all of these, Git, Docker, Jenkins, Puppet, and Selenium.

Deploying an app on Kubernetes using CI/CD Pipelines

This application deployment project offers practical learning to create a CI/CD Pipeline integrated with Kubernetes. The learners will containerize the code pushed in Git, save the Docker image, and push the image to Docker Hub.

Merging Git Branches

The learners will understand the importance of merging branches in Git by employing a production use case where merging is required. They will decide to use Git merge or rebase based on the use case. They will also use Git workflows.

Implementing Git Workflow

The project allows the learners to perform successful operations on Git tools. The learners also get hands-on learning to work with industry architectures, merge branches, and simulate a working architecture in Git.

Creating Custom Containers in Docker

The learners will build a custom container from the base Ubuntu container. This hands-on project also requires the learners to successfully create a Dockerfile, push a container into Docker Hub, and create custom Docker images.

Using Bind Mounts, Docker Compose, and Docker Swarm

In this project, learners will deploy an application by using Docker Compose, bind mounts, and Docker Swarm. Create and use Bind Mounts in Docker, deploy multiple docker applications. Also use Docker storage & Docker Networks

Using Puppet for Configuration Management

Get hands-on learning in configuration management using Puppet. Work with Docker, Puppet manifests conditional statements, modules, and classes to build Modular scripts and manage a large fleet of servers with Puppet.

Using Selenium to Create Automated Test Cases

The learners are required to create automated test cases with Selenium. As an important part, the learners will also be required to create runnable jar files along with running headless tests in Chrome using Non-GUI Linux.

Course Advisors / Faculty

Santosh NC



Lead DevOps & DevSecOps Engineer

With 7+ years of expertise in DevOps, Santosh is a DevSecOps Engineer skilled in creating, securing, and managing applications. He automates build and deployment tasks by creating CI/CD/CT pipelines along with infrastructure automation.

Rochak A.



DevOps Specialist

Rochak is a well-rounded professional with more than 8 years of experience. He is skilled in software management, DevOps, cloud computing, and infrastructure. He has experience working with big tech companies like Amazon and Accenture.

Dr. Purshottam A



Enterprise Architect

With a Ph.D. in Cloud Computing, Purshottam is a skilled professional in data, cloud, and consulting. With expertise in identity and access management, he provides consulting services, specializing in cloud systems and security.

Rupinder Singh

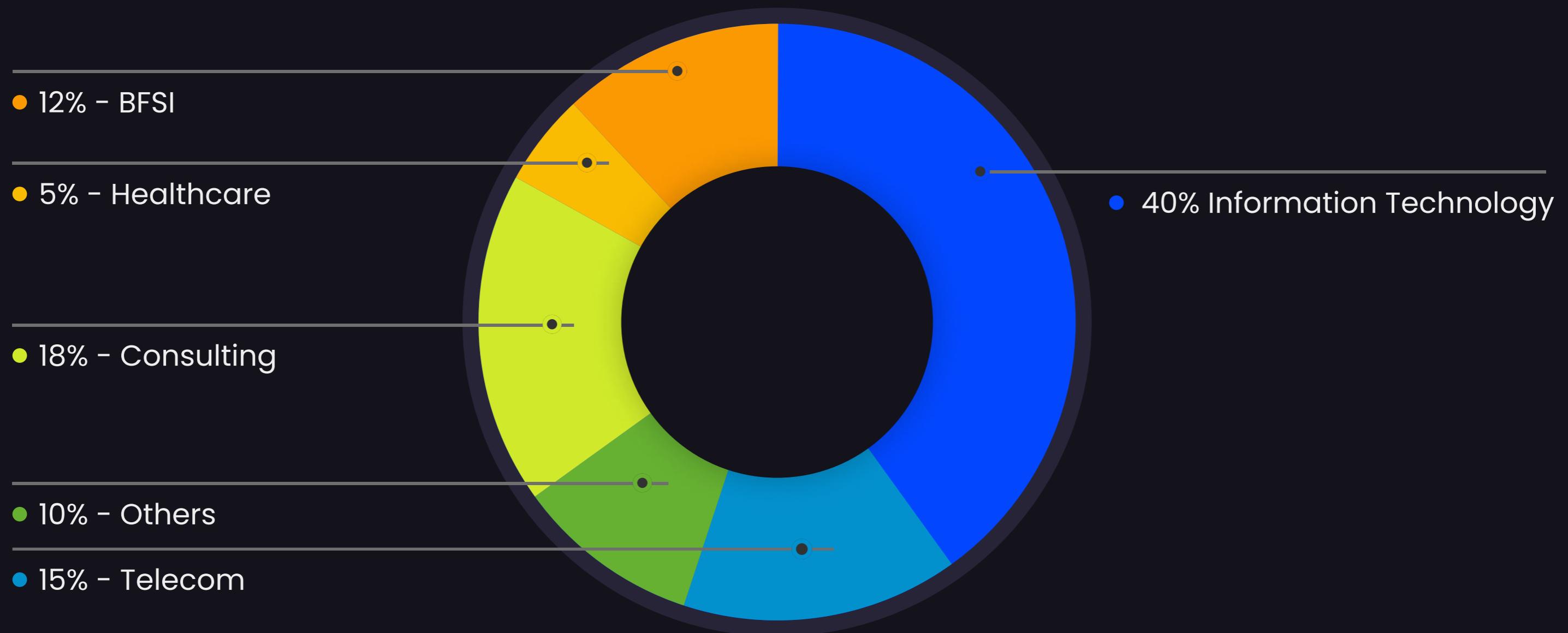


Application Architect

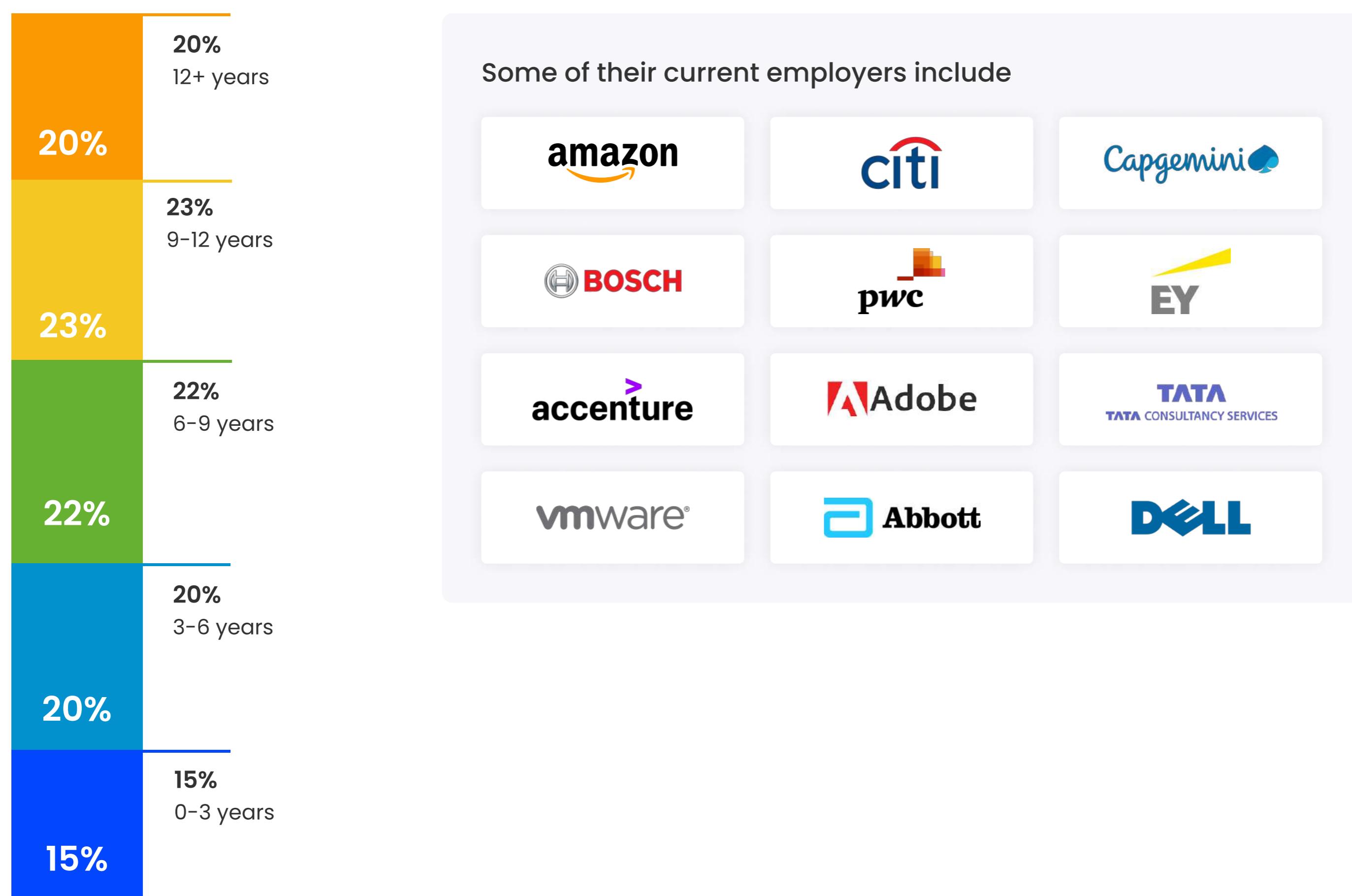
Rupinder is a certified IT expert in AWS and Azure, working as a DevOps Architect and specializing in cloud and infrastructure. He designs and builds entire IT setups for important apps in banking, insurance, and finance.

Meet the **Batch**

Industries Our Learners Come From



Work **Experience**



Glimpse of our Successful Transitions



4.6 ★★★★★



4.5 ★★★★★



4.38 ★★★★★

Career Transitions



About Intellipaat



Intellipaat is one of the leading online training providers with more than 10 million learners in over 155 countries. We are on a mission to democratize education as we believe that everyone has the right to quality education.

We create courses in collaboration with top universities and MNCs for employability like IIT Madras, University of Essex, University of Liverpool, IIT Roorkee, IIT Guwahati, E&ICT MNIT Jaipur, SPJIMR, IBM, Microsoft, etc.

Our courses are delivered by SMEs & our pedagogy enables quick learning of difficult topics. 24/7 technical support & career services help learners to jump-start their careers.

```
modifier.ob.select=1  
 bpy.context.scene.objects.active = modifier_ob  
 print("Selected" + str(modifier_ob)) # modifier ob is  
 modifier_ob.select = 0  
 ob = bpy.context.scene.objects.active
```

10 Million Learners & 500+ corporates across 155+ countries
upskilling on Intellipaat platform



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