

# College to Corporate – DevOps & Cloud Accelerator Program

A 25-hour hands-on training program designed specifically for college freshers ready to launch their careers in DevOps and cloud technologies.



# Why This Training Programme?

## The Challenge

College education provides foundational knowledge, but there's often a significant gap between academic learning and what companies actually expect from entry-level DevOps engineers.

## Our Solution

We bridge that gap with intensive, tool-based training that focuses on real-world skills, industry best practices, and hands-on experience with the technologies companies use every day.



### Rapid Skill Development

Become interview-ready in weeks, not months, with our accelerated learning approach.



### Industry-Standard Tools

Master Git, Docker, Kubernetes, Helm, and observability platforms used in production environments.



### Expert Mentorship

Learn from an instructor with 20+ years of IT experience and multiple Kubernetes certifications.

# Module 1: Git & Code Management

Master version control and collaborative development practices that form the foundation of modern software engineering.

## Git Fundamentals

Understanding Git architecture, repositories, and why it's the industry standard for version control.

## Branching Strategies

Learn GitFlow and trunk-based development approaches used by professional teams.

## Collaboration Workflows

Master pull requests, code reviews, and best practices for team-based development.

## Hands-On Practice

Create repositories, commit changes, manage branches, merge code, and submit pull requests.



# Module 2: Docker Essentials



## Containerization Fundamentals

Docker have revolutionized application deployment by enabling consistent environments across development, testing and production. Learn why containers have become essential in modern DevOps practices

1

### Container Concepts

Understanding containerization, its advantages over traditional virtualization, and Docker's role in ecosystem

2

### Image Creation

Writing Docker file, building optimized images, and managing image layers effectively.

3

### Registry Management

Creating Docker Hub accounts, pushing images to registries, and managing container repositories

4

### Container Operations

Running containers, managing volumes and network, and deploying real applications in containerized environments.



# Module 3: Kubernetes Basics

Kubernetes has become the de facto standard for container orchestration. Master the fundamentals of K8s architecture and learn to deploy and manage applications at scale.

## Cluster Architecture

Control plane components, nodes, and how Kubernetes orchestrates containerised workloads.

## Practical Deployment

Hands-on deployment of sample applications in real Kubernetes clusters.



## Core Resources

Pods, Deployments, Services, and how they work together to run applications.

## Workload Types

DaemonSets, StatefulSets, Jobs, and CronJobs for different application patterns.

# Module 4: Helm Package Management

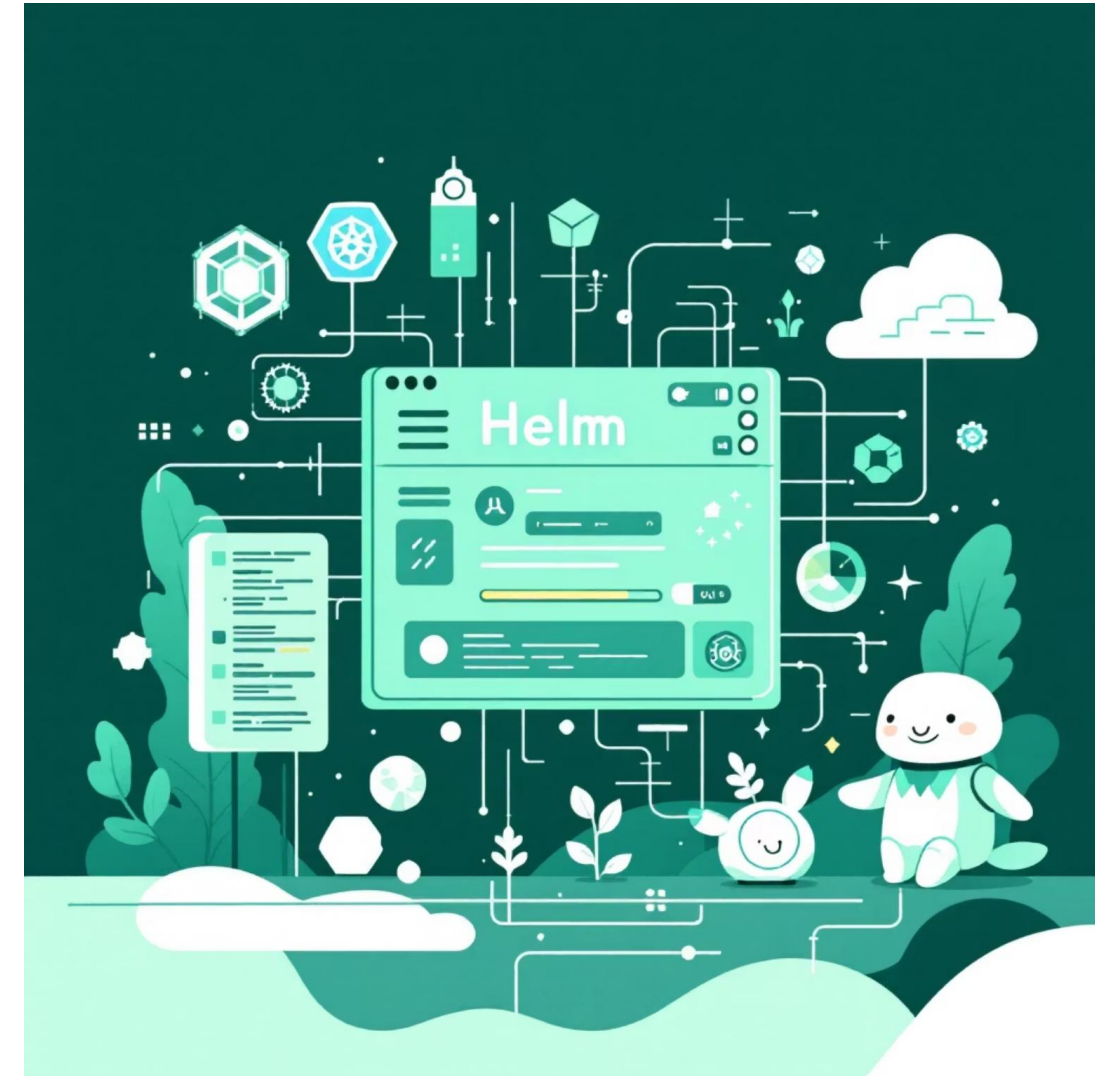
## Simplifying Kubernetes Deployments

Helm is the package manager for Kubernetes, making it easier to define, install, and upgrade complex applications. Learn to create and manage Helm charts that streamline your deployment workflows.

- Creating and customising Helm charts for your applications
- Templating techniques for flexible, reusable deployments
- Validating charts before deployment to catch errors early
- Managing complex multi-component applications efficiently

## Essential Tools

We'll also introduce user-friendly tools like Lens and Monokle that make Kubernetes management more accessible and visual.



# Module 5: Observability in Kubernetes

Observability is critical in production environments. Learn to implement monitoring and visualisation solutions that help you understand system behaviour and troubleshoot issues quickly.



## Why Observability?

Understanding the importance of monitoring, logging, and tracing in production systems.



## Prometheus Deployment

Setting up Prometheus using Helm charts to collect and store metrics from your cluster.



## Grafana Visualization

Creating dashboards to visualise CPU, memory, pod metrics, and custom application metrics.



**Real-World Practice:** You'll set up a complete observability stack just like those used in production environments, giving you practical experience that translates directly to workplace scenarios.



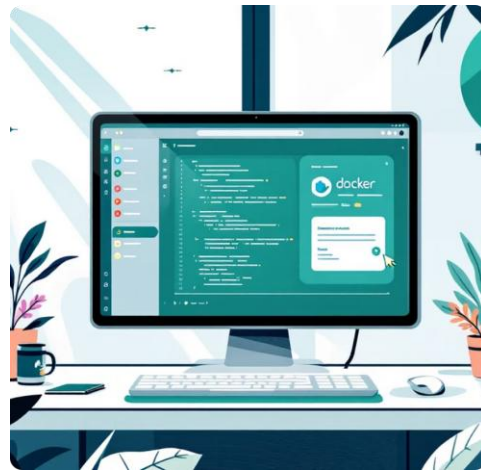
# Practical, Tool-Based Training

This program is 100% hands-on. Every concept is immediately applied through practical exercises, ensuring you gain real experience with industry-standard tools.



## GitHub

Industry-standard platform for version control and collaboration.



## Docker Desktop

Container runtime for building and testing applications locally.



## Kubernetes

Using Kind or Minikube for local cluster development and testing.



## Helm Charts

Package management for deploying complex applications seamlessly.



## Prometheus Grafana

Complete observability stack for monitoring and visualisation.

**Every student performs lab exercises in real time,** deploying actual applications from start to finish, ensuring you build muscle memory and confidence with each tool.



# What Freshers Receive

## Hands-On Lab Training

Extensive practical exercises with real tools and technologies, giving you portfolio-ready experience.

## Interview Preparation

Comprehensive preparation covering both HR and technical interviews, including common questions and best practices.

## Mock Interviews

Realistic interview simulations that build confidence and help you refine your responses.

## Résumé Building

Professional assistance in crafting a compelling CV that highlights your new skills effectively.

## Job Search Support

Practical guidance on job searching strategies, application techniques, and networking. No false promises—just honest, helpful support.

## Interview Confidence

The skills and knowledge to confidently discuss Docker and Kubernetes concepts in technical interviews.

# Prerequisites & Program Highlights

## Prerequisites

This program is designed to be accessible to college freshers. You'll need:

- A laptop or access to a computer with internet connectivity
- Ability to follow instructor guidance and complete exercises
- Willingness to learn actively and practice daily
- Basic computer literacy and enthusiasm for technology

No prior DevOps or cloud experience is required—we'll build your skills from the ground up.

## Program Highlights

### Experienced Instructor

20+ years in IT with 10+ years specializing in Docker and Kubernetes.

### Industry Certifications

CKA | CKAD | KCSA | KCNA certified professional guiding your learning.

### Real-World Scenarios

Industry scenarios delivered in a clear, accessible teaching style.





# Call to Action — Start Your Career Transformation Today!

 **Ready to reserve your seat or request a training quote?**

 **Email:** [traicasolutions@gmail.com](mailto:traicasolutions@gmail.com)

 **Phone:** +91 73061 43339

Our team is here to guide you from **college to career-ready professional.**

 **Let's build your DevOps & Cloud future — together.**