What is CI/CD

Continuous integration (CI) and continuous delivery (CD), also known as CI/CD, embodies a culture, operating principles, and a set of practices that application development teams use to deliver code changes more frequently and reliably.

CI/CD is a best practice for devops. It is also a best practice in agile methodology. By automating integration and delivery, CI/CD lets software development teams focus on meeting business requirements while ensuring code quality and software security

How does it benefit Us?

- **Cost Deduction**

Delivering high quality tailor-made solutions to address business-specific challenges requires a way to meet the rapid time constraints imposed by rivals. Embracing CI/CD is the perfect fix to shorten the time to finish a project and market new features. The shorter the development cycle, the higher the chances are to meet ambitious time-to-market goals

- **Easy Maintenance & Updates**

Downtime often results in irreparable damage to customer trust and the company’s reputation. With CI/CD we’ll be able to catch bugs in the early stages of deployment which helps us fix the bugs promptly without any delay in shipping the build. While testing takes place in the background, developers can save a lot of time, which enhances our productivity

- **Loyal Customer Base**

The on-demand delivery experience that customers insist on leaves little room for errors and bugs. Matching them with the best fulfillment is critical to capturing market share. Implementing CI/CD reduces both lead time and response time, which in turn minimizes release risk and maximizes developer time. A stable operating environment and faster resolution to production requirements enable you to cement customer loyalty and create great experiences

- **Accelerated Release Cycles**

With CI/CD, you can visualise the development cycle from commit to production, continuously merge code, and repair detected bugs. You can release software to production multiple times after thorough testing without compromising quality parameters. CI/CD always keeps the code in a release-ready state as changing code frequently is more of a routine now in modern software development.