**Adopting CI/CD**

CI/CD can be pictured as a pipeline, where new code is submitted on one end, tested over a series of stages (source, build, test, staging, and production), and then published as production-ready code. Each stage of the CI/CD pipeline is structured as a logical unit in the delivery process.

Automating CI means developers can catch errors easily and spend less time on issues, hence saving costs because of reduced man-hours

Automating Unit Tests in CI means developers can catch production-breaking bugs in development and have less production bugs. Costs can be saved with this strategy

Automating infrastructure deployment in CD means there will be less human error and faster deployment.

Automating Smoke Tests helps to reduce downtime from deployment crashes, and ensures production servers are always online, reducing the risk of money loss due to deployment downtimes.

Automating rollbacks in CD makes it possible to quickly roll back to the working state of service, and thus helps prevent production downtimes.

This enables the rapid and reliable delivery of features and updates

# Cost Deduction

As per one of the recent Forbes Insights surveys, "Three out of four executives agree that the amount of time, money, and resources spent on ongoing maintenance and management— versus new project development or new initiatives—is affecting the overall competitiveness of their organization."

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.

Improved Mean Time To Resolution (MTTR).

With small code changes and quick fault isolations, adopting CI/CD plays a crucial role in reducing the MTTR, thus keeping deployment failures to a bare minimum and recovering quickly from failures is a critical business risk assurance for those embarking on the CI/CD journey