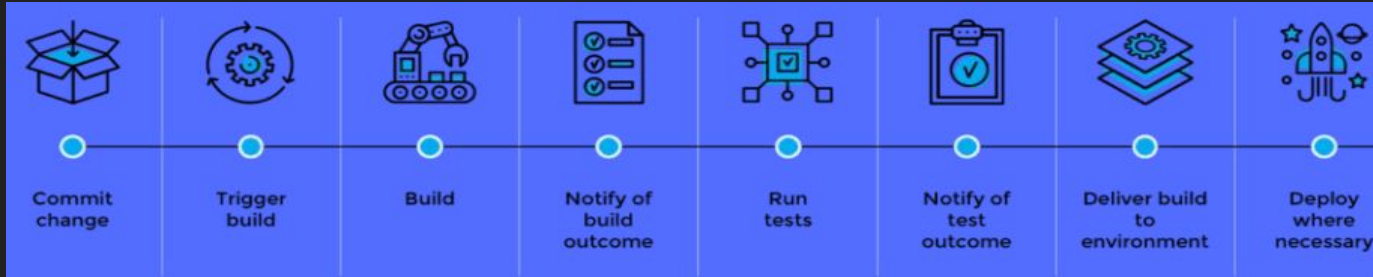


# Fundamentals and Benefits of CI/CD

Why we need CI/CD at Udapeople

# What's CI/CD



Continuous Integration (CI): The practice of merging all developers' working copies to shared mainline several times a day.

Continuous Deployment (CD): A software engineering approach in which the value is delivered frequently through automated deployments.

CI/CD mainly helps to speed the process of delivering new features to application.

# Benefits of applying CI/CD

How CI/CD will help Udapeople

- Reduce Cost
- Avoid Cost
- Protect Revenue
- Increase Revenue

# How will this goal be achieved?

Avoid Cost	Reduce Cost	Protect Revenue	Increase Revenue
Less bugs in production and less time in testing	Less developer time on issues from new developer code	Reduced downtime from a deploy-related crash or major bug	New value-generating features released more quickly
Prevent embarrassing or costly security holes	Less infrastructure costs from unused resources	Quick undo to return production to working state	Less time to market
Less human error, faster deployments		increase customers confidence.	