## HOW AIOPS IMPROVES SOFTWARE DEPLOYMENT EFFICIENCY

1. Continous intergration and continuous deployment- due to AI automation,potential build failures can be predicted in advance and test cases optimized leading to faster deployments.
2. Automated monitoring and incident management- AI monitoring tools analyze large amounts of metrics and logs and traces in real time to detect critical patterns that may indicate an imminent failure.
3. Infrastructure of code optimization- automations and optimizations enhances settings optimization automation and configuration,security flaw detection and even usage prediction.
4. Security and compliance automation-security solutions constantly scan the code, automatically detect vulnerabilities and validate compliance with standard regulations.
5. Privacy and data governance- AI models depend heavily on large datasets, which raises ethical concerns .Comprehensible data governance that ensure data quality and accountability which are necessary for responsible AI deployment are a growing trend.

## EXAMPLES:

Netflix- automates canary deployments and monitors performance issues before they impact users.AI also helps in noticing potential breakages from disparate stream components.

Amazon- automates its infrastructure and ensures the high availability and dependability of AWS cloud services. This is useful because it splits and conquers your cloud spending while not letting your perfomance drop.