AIOPS Assignment 2

1. What is AI-ops?

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AI-ops is an approach/methodology to operationalize the ML/AI system.
It is a combination of AI and Devops which create operationalized,
reliable, sustainable and easy to maintain systems.
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2. Why do we use Ai-ops?

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We need an AI-ops approach to develop
1. Operationalize
2. Reliable
3. Sustainable
4. Easy to maintain
Machine learning systems.
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3. What is the difference between AI-ops and ML-ops?

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ML-Ops :  It's a discipline that aims to build, scale, and deploy
algorithms to production consistently.

AI-ops : AIOps is a series of multi-layered platforms(big data,
advanced analytics, and machine learning techniques) that automate IT
to make it more efficient

AIOps helps teams automate their tech lifecycles, MLOps helps teams
choose which tools, techniques, and documentation will help their
models reach production.
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4. What do you mean by CI-CD?

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CI: Continuous Integration: is no longer only about testing and
validating code and components, but also testing and validating data,
data schemas, and models.
CD: Continuous Deployment: is no longer about a single software package
or service, but a system (an ML training pipeline) that should
automatically deploy another service (model prediction service) or roll
back changes from a model.
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5. What do you mean by Bash?

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Bourne Again Shell: It was the first and oldest shell used in unix.
Bash is among the most popular of shell languages, known for its
combination of powerful capabilities and user-friendly commands.
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6. What do you mean by kernels? Explain the functions of kernels.

Kernel is the main component of the Linux operating system (OS) and is the core interface between the computer hardware and its process.

Below are the functions of kernel:-

Process Management.
Memory Management.
Device Management.
Interrupt Handling.
Input Output Communication.

7. What are the essential elements or components of Linux?

Bootloader and kernel
Init system
Daemons
Graphical Server(X Server)
Desktop Environment(GNOME, Xfce, KDE etc)
Applications