

NEW HORIZON COLLEGE OF ENGINEERING
DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE
LEARNING

&

SKILL DEVELOPMENT CENTRE

SKILL DEVELOPMENT PROGRAM ON MLOPS

REPORT

1. Basic Details

Title of the Programme: Three-Day Skill Development Programme on “Machine Learning Operations”

Category: MLOps

Date(s): 08-07-2026 to 10-07-2026

Time: Day 1: Session 1 (9.00 AM – 12:30 PM), Session 2 (1:30 PM – 4:30 PM)
Day 2: Session 3 (09.00 AM – 12:30 PM), Session 4 (1:30 PM – 4:30 PM)
Day 3: Session 5 (09.00 AM – 12:30 PM), Session 6 (1:30 PM – 4:30 PM)

Venue / Mode : IBM Lab 1, NHCE (Offline)

Organizing Department / Unit: Department of Artificial Intelligence & Machine Learning with Skill Development Centre

Coordinator(s): Dr.Sreejtih S (Coordinator, AI&ML), Dr. Lipsa Dash (Coordinator, Skill Development Centre)

Target Audience: Faculty Members of NHCE

Number of Participants Attended:

Teaching Staff: Day 1 – 46 participants, Day 2-37 participants, Day 3-36 participants

Non-Teaching / Technical Staff: Nil

Others (if any): Nil

2. Objective of the Programme

To equip faculty members with the knowledge and practical skills required to develop, deploy, monitor, and manage machine learning models efficiently using MLOps practices, thereby enhancing their ability to implement scalable, reliable, and industry-relevant AI solutions in academic and research environments.

3. Resource Person(s) Details

Name	Designation	Affiliation / Organization
Mr.Raghu Prasad (External Resource Person)	CEO	Kaushalya Technologies

4. Summary of Sessions / Activities Conducted

Session No.	Topic / Activity	Resource Person	Highlights
1	Introduction to MLOps: Concepts, Lifecycle, and Industry Relevance	Mr.Raghu Prasad	Introduced MLOps fundamentals, ML lifecycle, challenges in model deployment, and the role of MLOps in production AI systems.
2	Version Control, Data Management, and Experiment Tracking	Mr.Raghu Prasad	Demonstrated Git-based workflows, data and model versioning, experiment tracking, and best practices for reproducible machine learning.
3	Model Development, Packaging, and Containerization	Mr.Raghu Prasad	Covered model packaging, dependency management, Docker containers, and preparing ML models for deployment across environments.
4	CI/CD Pipelines and Automated Model Deployment	Mr.Raghu Prasad	Introduced Continuous Integration and Continuous Deployment

			(CI/CD), automated testing, deployment pipelines, and workflow orchestration for ML applications.
5	Model Monitoring, Performance Evaluation, and Retraining	Mr.Raghu Prasad	Discussed model monitoring, drift detection, logging, performance metrics, alerting mechanisms, and strategies for continuous model improvement.
6	End-to-End MLOps Project Demonstration and Hands-on Practice	Mr.Raghu Prasad	Integrated the complete MLOps workflow through a practical case study, enabling participants to build, deploy, monitor, and manage an ML model in a production-oriented environment.

5. Participant Feedback (Summary)

- Participants appreciated the well-structured sessions that combined theoretical concepts with hands-on demonstrations.
- Practical exercises on model deployment, CI/CD pipelines, containerization, and monitoring enhanced participants' understanding of real-world MLOps workflows.
- Faculty reported improved confidence in deploying and managing machine learning models using industry-standard MLOps tools and practices.
- Participants recommended organizing advanced MLOps training programmes with extended hands-on sessions on cloud deployment, Kubernetes, and production-scale machine learning.

6. Outcomes of the Programme

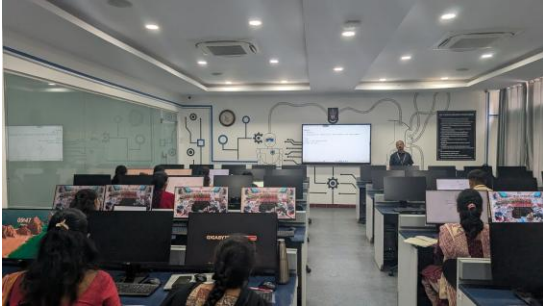
- Faculty developed a strong understanding of MLOps concepts, workflows, and best practices for deploying machine learning models in production environments.
- Gained practical knowledge of version control, experiment tracking, containerization, and CI/CD pipelines for reproducible and scalable machine learning.
- Enhanced their ability to monitor, maintain, and optimize deployed machine learning models using industry-standard MLOps tools and practices.

- Strengthened their readiness to integrate MLOps methodologies into teaching, research, and AI-driven application development, fostering industry-aligned learning and innovation.

7. Photographs / Screenshots



A Warm welcome to the Guest Speaker



8. Remarks / Recommendations

Future SDPs could incorporate extended hands-on workshops and mentoring sessions to enable participants to effectively implement MLOps workflows in academic and research environments.

9. Submitted by:

Name of Coordinator(s): Dr.Sreejith. S and Dr. Lipsa Dash

Designation: Coordinator, AI&ML and Skill Development Centre

Department: Artificial Intelligence & Machine Learning

Date of Submission: 15.07.2026