



MADHAV INSTITUTE OF TECHNOLOGY AND SCIENCE, GWALIOR (M.P.), INDIA

A Govt. Aided UGC Autonomous Institute, Affiliated to RGPV, Bhopal (M.P.), India

NAAC ACCREDITED WITH A++ GRADE

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**WORKSHOP ON "FUNDAMENTALS OF DEEP LEARNING" IN ASSOCIATION WITH  
NVIDIA DEEP LEARNING INSTITUTE (DLI)**

**Activity Details**

- **Activity Title:** Workshop on Fundamentals of Deep Learning
- **Day & Date:** Sunday, 11-02-2024
- **Time:** 10:00 AM Onwards
- **Venue:** Conclave Center
- **Total Number of Participants:** 100

**Speaker: -**

**Speaker:** Mr. Arun Kumar, Data Research scientist NVIDIA DLI Instructor and University Ambassador

**Convener: -**

Dr. Manish Dixit

**Faculty Coordinators: -**

Dr. Parul Saxena

Prof. Hemlata Arya

**Introduction**

The Department of Computer Science and Engineering, MITS Gwalior conducted a workshop on the Fundamentals of Deep Learning at the Conclave Center on February 11, 2024, from 10:00 AM onwards, coordinated by Dr. Parul Saxena and Prof. Hemlata Arya, and convened by Dr. Manish Dixit (Prof & Head of CSE Department). Mr. Arun Kumar (Data Research Scientist and NVIDIA DLI Instructor with Ph.D. from IIT Roorkee) was the resource person in this workshop.

The session started with a warm welcome speech delivered by a second-year B. Tech student, setting the tone for the day. This was followed by Saraswati Vandana, a cultural aspect that added a touch of tradition to the workshop. Prior to the Saraswati Vandana ceremony, a lamp was

ceremoniously lit, symbolizing the illumination of knowledge and the auspicious beginning of the workshop.

Mr. Arun Kumar commenced the session with an introduction, guiding the 81 participating students through the first step of registration on the NVIDIA website. The workshop covered key topics such as Introduction to Deep Learning, Neural Trains, Convolution Neural Trains, Data Augmentation and Deployment, Pre-trained Models, and Advanced Architecture and other useful insights of Deep Learning. The participants actively engaged in discussions and practical activities facilitated by Mr. Arun Kumar. Towards the end, each student was assigned an assignment, and upon successful submission, workshop completion certificates were generated, recognizing their understanding of deep learning fundamentals. The workshop received positive feedback for its comprehensive coverage and practical insights, contributing to the continuous learning and skill development of the students in the dynamic field of deep learning. The department expresses its commitment to organizing more such workshops to enhance the academic experience of its students.

Towards the end, Dr. Parul Saxena and Prof. Hemlata Arya gave a thoughtful close-out speech, expressing gratitude and summarizing the key takeaways from the workshop.

There were the following Objectives and Outcomes from this Workshop:

### **Objectives:**

**Knowledge Enhancement:** The workshop aimed to enhance participants' understanding of deep learning fundamentals, covering topics like neural networks, convolutional neural networks, data augmentation, pre-trained models, and advanced architecture.

**Hands-On Application:** The objective was to facilitate hands-on learning through assignments, allowing participants to apply theoretical knowledge and develop practical skills in deep learning concepts.

### **Outcomes:**

**Skill Development:** Successful completion of the workshop and assignment submissions resulted in the generation of certificates, indicating participants' development of both theoretical understanding and practical skills in deep learning.

**Positive Feedback and Continuous Learning:** Positive feedback and the department's commitment to organizing more workshops highlight the success of the event, showcasing a demand for continuous learning and skill development in the dynamic field of deep learning. Participant engagement in discussions and practical activities contributed to an enriching learning experience.

*Hemlata Arya*

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