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DEPARTMENT OF CSE-AI&DS

Ref. No.: PIET/CSE-AIDS/ICT/2022/02 **Date: 09-11-2022**

NOTICE

SESSION ON "MATLAB DEEP LEARNING TOOLBOX"

This is for the information of all that the Department of CSE-AI&DS in collaboration with CSE-AI&ML, CSE-Cyber Security is organizing a Session on **"MATLAB Deep Learning Tool Box" on 16th November 2022**. The session will start at 12:45 pm in G- 404 (Rise building, G-Block). Interested students can contact the undersigned.

Sr no.	Name	Department	Designation
1	(Prof.) Dr. Anju Gandhi	CSE	Coordinator

Head of Department
CSE-(AI&DS)

Dr. B.K. VERMA
HOD, CSE-AIDS
PIET, SAMALKHA

CC:

1. HOD (AI&ML) and HOD (CS)
2. Notice Board

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Report on Session – "MATLAB DEEP LEARNING TOOLBOX"

Event Details	
Title of the Event	MATLAB DEEP LEARNING TOOLBOX
Date of the Event	16 November, 2022
Timings	12:45 pm onwards
Venue	G-404 (Rise Building, G-Block)
No. of Participants Attended	20
Mode	Offline
Resource Persons	Mr. Manoj (Design Tech) and Mr. Rahul Singh Contact No 7206504512 and 9817611231
Coordinator	(Prof.) Dr. Anju Gandhi

The Department of CSE-AI&DS in collaboration with CSE-AI&ML, CSE-Cyber Security organized one day Session on MATLAB DEEP LEARNING TOOLBOX on 16 Nov 2022. The Session was started at sharp 12:45pm with warm welcome of Mr. Manoj and Mr. Rahul by the coordinator (Prof.) Dr. Anju Gandhi and the Session featured sessions on Deep Learning engaging 20 attendees through interactive discussions and activities. The brief introduction about the MATLAB Deep learning toolbox was given to the students.

The objective of this Session to provide knowledge of MATLAB commands for creating and interconnecting the layers of a Deep Neural Network**.** This 3-hour event involved both theoretical knowledge and hand-on session on how to create, train, and evaluate different kinds of deep neural networks. Students were taught to perform image classification using pretrained networks and how to use transfer learning to train customized classification networks. From practical session, students gain insight into how a network is operating by visualizing image data as it passes through the network.

This Session on Deep Learning and its Applications was hosted with the prime intention to introduce the exciting applications of industrial-research works carried out using feature engineering and machine learning techniques regarding deep learning to the students. Starting from the basics of Machine Learning and Neural Networks, the resource persons delivered the required preliminaries smoothly.

The main topics delivered were Convolutional Neural Nets, Recurrent Neural Nets, Autoencoders, Restricted Boltzmann Machines, etc. Applications in the domains of Natural Language Processing, Computer Vision, Path Planning, were also discussed.

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The purpose of the Session was fulfilled successfully by providing the students comprehensive understanding of deep learning fundamentals, including neural network structures, training algorithms, and common applications. Students learnt how to pre-process and manage data, including techniques splitting datasets for training and validation. Participants gained skills in evaluating model performance using various metrics and learn methods for optimizing models to improve accuracy and efficiency.

At the end of the Session **(Prof.) Dr. Devendra Prasad (AI&ML) and Dr. B. K. Verma (AI&DS)** honored and thanked the speaker for motivating and enlightening the students with valuable insights. They special thanked to each and every one of our attendees. They appreciated their presence on that day demonstrated their commitment to innovative lectures, and hoped the knowledge and insights gained will prove valuable in your future endeavors.

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Pic1: Mr. Manoj addressing students during session

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Pic2: Dr. Devendra Prasad and Dr. B. K. Verma honoring the speaker Mr. Rahul Singh

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Attendance Sheet

Panipat Institute of Engineering & Technology

Department of CSE-AIDS

Session on "MATLAB Deep Learning Toolbox" **16th November 2024**

S.no	Roll Number	Name	Class	Sign
1	2820042	Nitin Kumar Sheokand	CSE-CS	
2	2820401	Shiv	CSE-CS	
3	2820402	Pratham	CSE-CS	
4	2820406	Dev Sharma	CSE-CS	
5	2820407	Vaibhav Goyal	CSE-CS	
6	2820408	Pulkit	CSE-CS	
7	2820061	Swayam. K. Sharma	CSE-AI&DS	
8	2820322	Prabhjot Singh	CSE-AI&DS	
9	2820341	Bhawna	CSE-AI&DS	
10	2820324	Akshat Mittal	CSE-AI&DS	
11	2820350	Lalit Sharma	CSE-AI&DS	
12	2820361	Vanshika Wadhwa	CSE-AI&DS	
13	2820366	Saransh	CSE-AI&DS	
14	2820323	Shristi	CSE-AI&DS	
15	2820342	Ansh Grover	CSE-AI&DS	
16	2820359	Shivam	CSE-AI&DS	
17	2820381	Muskan	CSE-AI&DS	
18	2820379	Ayush	CSE-AI&DS	
19	2820396	Vastav	CSE-AI&DS	
20	2821956	Kunal	CSE-AI&DS	

Coordinator Signature- 16/11/22