



ARKA JAIN
University
Jharkhand



ARKA JAIN
University
Jharkhand



Department of Computer Science & Information Technology

CIRCULAR

Ref.No.: AJU/CS & IT/07/2024-25

Date: 16.07.2024

This is hereby to inform all the students that Department of Computer Science & IT is going to organize a Value Added Course on "Deep Learning and its Application" from 24th July 2024 to 09th August 2024. Interested students can nominate themselves on or before 23rd July 2024.

Arvind Pandey

Dr. Arvind Kumar Pandey
Dean
School of Engineering & IT
ARKA JAIN University, Jharkhand
Dean
School of Engineering & IT
ARKA JAIN University Jharkhand



VALUE ADDED COURSE ON DEEP LEARNING AND ITS APPLICATION

Date of Event	24-07-2024 to 09-08-2024
Name and Type of Event	Value Added Course on Deep Learning and its Application, Skill Development
Conducted by	Mr. Akash Kumar Bhagat, Dr. Arvind Kumar Pandey
No. Of Participant	76

Objective of the Course:

The primary objective of this value-added course was to equip students with a comprehensive understanding of Deep Learning concepts, practical implementation of Neural Networks, and their applications in real-world scenarios.

Course Details:

The course commenced on 24-07-2024 and was held in the Computer Lab of the Department of CS & IT at 5:00 PM. The sessions were structured to provide hands-on experience, enabling students to develop practical skills in deep learning. The curriculum covered the following key topics:

- Fundamental Understanding of Deep Learning
- Ability to Implement Neural Networks
- Proficiency in Convolutional Neural Networks (CNNs)
- Competence in Generative Adversarial Networks (GANs)
- Application of Deep Learning in Real-World Scenarios

Course Implementation:

Each session included both theoretical and hands-on practical learning, with assignments given daily to enhance students' understanding. The course content was entirely practical-based, ensuring that students gained proficiency in applying deep learning techniques effectively.

Assessment & Certification:

On the final day of the course, students appeared for a test to evaluate their understanding and practical skills. Those who met the minimum qualifying criteria were successfully certified for completing the course.

Outcomes of the Course:

- By the end of the program, students achieved:
- A solid foundation in deep learning concepts.



- Hands-on experience in designing and implementing Neural Networks.
- Proficiency in advanced architectures like CNNs and GANs.
- Practical exposure to real-world applications of deep learning.
- The ability to independently work on deep learning projects and assignments.

This value-added course provided a significant learning experience for students, bridging the gap between theoretical knowledge and practical implementation in the field of deep learning.



ARKA JAIN University
Jharkhand



Poster of the Event:



ARKA JAIN University
Jharkhand



RANKED 3rd
IN "TOP-15 EMERGING PRIVATE UNIVERSITIES IN INDIA" CATEGORY



Department of Computer Science & IT

Organizes

Value added Course On
Deep Learning & its Application



24TH JULY 2024 TO 09TH AUGUST 2024

CONVENOR : DR. ARVIND KUMAR PANDEY | CO-ORDINATOR : AKASH KUMAR BHAGAT

Screenshots:

The screenshot shows a Google Meet interface during a presentation. The main content is a slide titled "Activation Functions" with the following text: "Information processing of processing element has two major parts: input and output." Below this, four functions are displayed in a grid:

Step function	Sign function	Sigmoid function	Linear function
$y^{step} = \begin{cases} 1, & \text{if } X \geq 0 \\ 0, & \text{if } X < 0 \end{cases}$	$y^{sign} = \begin{cases} +1, & \text{if } X \geq 0 \\ -1, & \text{if } X < 0 \end{cases}$	$y^{sigmoid} = \frac{1}{1+e^{-X}}$	$y^{linear} = X$

Below the slide, the meeting controls show a list of participants: VIKASH KUMAR SINGH (left), Kaushik Barnwal, Akash Kumar Bh..., Anand Singh, Vinayak Dubey, Abhishek Kumar..., and Akash Bhagat. The meeting title is "4:45 PM | xae-ozma-tvn".



https://meet.google.com/xae-ozma-tvn?authuser=0

People

Mute all Add people

Contributors 9

- Akash Bhagat (You) Meeting host
- Abhishek Kumar Singh
- Akash Kumar Bhagat
- Ankush Bhattacharya
- Aparna Kumari
- Kaushik Barnwal
- Khushi Sharma
- shiva kumar
- Vikash Kumar

4:15 PM | 30 Hours Value Added Course on Deep Lea...

Type here to search

32°C Partly sunny 16:15 24-07-2024



Topic of Value-Added Course Date and Time

Sessions	Topics	Date	Time
	UNIT: 1		
1.	Introduction to Deep Learning, Overview of Machine Learning vs. Deep Learning	24.07.2024	5:00 to 7:00 PM
2.	History and evolution of Deep Learning, Trends in the adoption of Deep Learning	25.07.2024	5:00 to 7:00 PM
3.	Applications of Deep Learning across various domains	26.07.2024	5:00 to 7:00 PM
	UNIT: 2		
4.	Neurons and biological inspiration, The Perceptron model	27.07.2024	5:00 to 7:00 PM
5.	Activation functions: Sigmoid, Tan h, ReLU, and others, Loss functions: MSE, Cross-Entropy	29.07.2024	5:00 to 7:00 PM
	UNIT: 3		
6.	Forward and Back propagation, Gradient Descent and its variants (SGD, Adam, etc.)	30.07.2024	5:00 to 7:00 PM
7.	Over fitting and Regularization techniques (Dropout, L2, Early Stopping)	31.07.2024	5:00 to 7:00 PM
8.	Introduction to optimization techniques	01.08.2024	5:00 to 7:00 PM
	UNIT: 4		
9.	Convolution and pooling operations	02.08.2024	5:00 to 7:00 PM
10.	CNN architectures: LeNet, AlexNet, VGG, ResNet	03.08.2024	5:00 to 7:00 PM
11.	Applications of CNNs in image processing	05.08.2024	5:00 to 7:00 PM
	UNIT: 5		
12.	GAN architecture and training process	06.08.2024	5:00 to 7:00 PM
13.	Applications of GANs in image generation, style transfer	07.08.2024	5:00 to 7:00 PM
14.	Challenges in training GANs	08.08.2024	5:00 to 7:00 PM
15.	Future trends in Deep Learning	09.08.2024	5:00 to 7:00 PM



List of Students

Serial No	Name of the Candidate	Email ID	Affiliated Institute/ College/ University
1	RITIK JAIN	ritikjain.ja@gmail.com	ARKA JAIN UNIVERSITY
2	Vishal Patwari	vishalmpatwari@gmail.com	ARKA JAIN UNIVERSITY
3	Aparna Kumari	aparnakjsr@gmail.com	ARKA JAIN UNIVERSITY
4	MD IMRAN ANSARI	md1231974@gmail.com	ARKA JAIN UNIVERSITY
5	Anupam Kumar Sharma	anupamx98@gmail.com	ARKA JAIN UNIVERSITY
6	Shiva Kumar Nishad	nishadshiva546@gmail.com	ARKA JAIN UNIVERSITY
7	Vishal Patwari	vishalmpatwari@gmail.com	ARKA JAIN UNIVERSITY
8	SURAJ KHANDAIT	surajkhandait30@gmail.com	ARKA JAIN UNIVERSITY
9	Bhumika Singh	singhbhumika1705@gmail.com	ARKA JAIN UNIVERSITY
10	Adarsh kumar singh	adarshsdl2000@gmail.com	ARKA JAIN UNIVERSITY
11	Rahul Kumar	kumarrahulraj468@gmail.com	ARKA JAIN UNIVERSITY
12	Ankush Biswas	cenas7570@gmail.com	ARKA JAIN UNIVERSITY
13	Mohit das	viper2720@gmail.com	ARKA JAIN UNIVERSITY
14	SANJANA SHARMA	sanjanasharma0429@gmail.com	ARKA JAIN UNIVERSITY
15	Saabrin Khanam	sabrinkhanam6@gmail.com	ARKA JAIN UNIVERSITY
16	P. Varsha Kumari	kumaripotnorluvarsha@gmail.com	ARKA JAIN UNIVERSITY
17	Anurag kumar paul	anuragpaul5978@gmail.com	ARKA JAIN UNIVERSITY
18	KARAN KUMAR NONIA	karankr8250@gmail.com	ARKA JAIN UNIVERSITY
19	Ronack kumar	raunackbhardwaj1307@gmail.com	ARKA JAIN UNIVERSITY
20	Rahul Kumar	yr720697@gmail.com	ARKA JAIN UNIVERSITY
21	Meghashree Anand	meghashreeanand440@gmail.com	ARKA JAIN UNIVERSITY
22	Devendra kumar	amanaryan3118@gmail.com	ARKA JAIN UNIVERSITY
23	Harish Prasad	harishprasad2004jsr@gmail.com	ARKA JAIN UNIVERSITY
24	Sara Perween	saraperween29@gmail.com	ARKA JAIN UNIVERSITY



25	Badal Choudhary	badalchoudhary73128@gmail.com	ARKA JAIN UNIVERSITY
26	Rahul Kumar	rkumarjsr14@gmail.com	ARKA JAIN UNIVERSITY
27	Ritika das	ritikadas620@gmail.com	ARKA JAIN UNIVERSITY
28	NAZNEEN BEGUM	nazneenbegum16022004@gmail.com	ARKA JAIN UNIVERSITY
29	Aradhana singh	as8809094@gmail.com	ARKA JAIN UNIVERSITY
30	Roshan Gupta	roshangpt121@gmail.com	ARKA JAIN UNIVERSITY
31	Abhay kumar	abhaykumardec27@gmail.com	ARKA JAIN UNIVERSITY
32	Shruti	shrutik8702@gmail.com	ARKA JAIN UNIVERSITY
33	Khushi Kumari	khushisharma18563@gmail.com	ARKA JAIN UNIVERSITY
34	PALLAVI	Pallavikasera2002@gmail.com	ARKA JAIN UNIVERSITY
35	RITIK GUPTA	ritikgupta913553@gmail.com	ARKA JAIN UNIVERSITY
36	Vikram Kumar	vikramkumar0120arav@gmail.com	ARKA JAIN UNIVERSITY
37	Bhaskar Kumar Mahato	pmahto612@gmail.com	ARKA JAIN UNIVERSITY
38	KUMARI PRIYA	kumaripriya3903@gmail.com	ARKA JAIN UNIVERSITY
39	Vikash Kumar	vk3575575@gmail.com	ARKA JAIN UNIVERSITY
40	Piya Adhikary	piyaadhikarigts@gmail.com	ARKA JAIN UNIVERSITY
41	Monishankar Mahato	msmahato123@gmail.com	ARKA JAIN UNIVERSITY
42	Raghvendra Kumar	raghvendrakumar98848@gmail.com	ARKA JAIN UNIVERSITY
43	Nikhil Kumar Yadav	ny3213569@gmail.com	ARKA JAIN UNIVERSITY
44	Pooja Kumari	poojakumari220610@gmail.com	ARKA JAIN UNIVERSITY
45	Puja singh	singhpuja5753@gmail.com	ARKA JAIN UNIVERSITY
46	Vinayak Dubey	vinayakdu.cyber@gmail.com	ARKA JAIN UNIVERSITY
47	Monishankar Mahato	msmahato123@gmail.com	ARKA JAIN UNIVERSITY
48	Samardeep Singh	samardeepsingh191@gmail.com	ARKA JAIN UNIVERSITY
49	Ankush Bhattacharya	ankushbh1998@gmail.com	ARKA JAIN UNIVERSITY
50	Karandeep Singh	karandeepsingh40635@gmail.com	ARKA JAIN UNIVERSITY
51	Falak Naaz	falaknaaz432sm@gmail.com	ARKA JAIN UNIVERSITY
52	Prashant Kumar	prashantk2158@gmail.com	ARKA JAIN UNIVERSITY



53	Bhaskar Kumar Mahato	pmahto612@gmail.com	ARKA JAIN UNIVERSITY
54	Ritika das	ritikadas620@gmail.com	ARKA JAIN UNIVERSITY
55	Anand singh	anandsinghchatra8680@gmail.com	ARKA JAIN UNIVERSITY
56	Abhay Kumar Tiwary	tiwary.abhay456@gmail.com	ARKA JAIN UNIVERSITY
57	Sanjeet Kumar	sanjeetkumar25102001@gmail.com	ARKA JAIN UNIVERSITY
58	R Sirisha Kumari	rsirishaofficial@gmail.com	ARKA JAIN UNIVERSITY
59	Vivek Kumar	vivekkumar61220@gmail.com	ARKA JAIN UNIVERSITY
60	Aman kumar	amankumarsaw87284@gmail.com	ARKA JAIN UNIVERSITY
61	Ankit Saw	ankitsaw950@gmail.com	ARKA JAIN UNIVERSITY
62	R Sirisha Kumari	rsirishaofficial@gmail.com	ARKA JAIN UNIVERSITY
63	Sukanya Bhowal	sukanyabhowal886@gmail.com	ARKA JAIN UNIVERSITY
64	Anchal Kumari	aanchalkri2020@gmail.com	ARKA JAIN UNIVERSITY
65	Vaishnavi Kumari	kvaishnavi027@gmail.com	ARKA JAIN UNIVERSITY
66	Soubhagya bibhar	Soubhagyabibhar243@gmail.com	ARKA JAIN UNIVERSITY
67	Priyanka Kumari	ipriyankasahu2@gmail.com	ARKA JAIN UNIVERSITY
68	Priya Kumari	kumaripriya3909@gmail.com	ARKA JAIN UNIVERSITY
69	K KUSUMANJALI	anjalikusum292@gmail.com	ARKA JAIN UNIVERSITY
70	Kaushik Raj	barnwalkaushik@gmail.com	ARKA JAIN UNIVERSITY
71	Anand kumar mishra	anandmishrajsr7765@gmail.com	ARKA JAIN UNIVERSITY
72	Sourav singha deb	ss9429540@gmail.com	ARKA JAIN UNIVERSITY
73	PRINCE RAJ RATHORE	princerajrathore32@gmail.com	ARKA JAIN UNIVERSITY
74	Vishal Kumar	vishalkr802204@gmail.com	ARKA JAIN UNIVERSITY
75	Abhishek Kumar Singh	abhishekkumarsingh906044@gmail.com	ARKA JAIN UNIVERSITY
76	SILVA MALLICK	silvamallick199@gmail.com	ARKA JAIN UNIVERSITY



ARKA JAIN
University
Jharkhand



Certificates



Certificate of Completion

🌟 This is awarded to 🌟

Monishankar Mahato

for completing the Value Added Course on
"Deep Learning with Tensorflow"


Dr. Arvind Kumar Pandey
Dean
Converner




Akash Bhagat
Assistant Professor
Coordinator



Certificate of Completion

🌟 This is awarded to 🌟

Puja singh

for completing the Value Added Course on
"Deep Learning with Tensorflow"


Dr. Arvind Kumar Pandey
Dean
Converner




Akash Bhagat
Assistant Professor
Coordinator



ARKA JAIN
University
Jharkhand



ARKA JAIN
University
Jharkhand



Certificate of Completion

This is awarded to

Ritika das

for completing the Value Added Course on
"Deep Learning with Tensorflow"

Dr. Arvind Kumar Pandey
Dean
Converner



Akash Bhagat
Assistant Professor
Coordinator



ARKA JAIN
University
Jharkhand



Certificate of Completion

This is awarded to

R Sirisha Kumari

for completing the Value Added Course on
"Deep Learning with Tensorflow"

Dr. Arvind Kumar Pandey
Dean
Converner



Akash Bhagat
Assistant Professor
Coordinator



ARKA JAIN
University
Jharkhand



ARKA JAIN
University
Jharkhand



Certificate of Completion

— This is awarded to —

Abhishek Kumar Singh

for completing the Value Added Course on
“Deep Learning with Tensorflow”

Dr. Arvind Kumar Pandey
Dean
Converner



Akash Bhagat
Assistant Professor
Coordinator