


Course Coordinator Report

Course Name: Certificate Course in Deep Learning

A free Add-On Course for PG students in the Department of Computer Science, Shri Shivaji Education Society Amravati's Science College, Congress Nagar, and Nagpur was held from 29/12/2023 to 06/04/2024. The course title was "Deep Learning". Welcome to the Deep Learning Add-On Course! This advanced course is perfect for those with a basic understanding of machine learning looking to specialize in deep learning techniques. We will cover topics such as convolutional neural networks (CNNs), recurrent neural networks (RNNs), and generative adversarial networks (GANs). You'll gain hands-on experience with industry-standard tools like TensorFlow and PyTorch. Through practical projects and real-world applications, you'll learn to design, implement, and optimize deep learning models. By the end of the course, you'll be prepared to apply deep learning in various domains, from image and speech recognition to natural language processing. Join us to elevate your AI skills and stay ahead in this rapidly evolving field!

The course duration was 10 weeks (30 hours). Two theory classes were engaged on Friday & Saturday and one Practical was engaged in every week. The structure of marking system was 80 marks on theory paper and 20 marks on practical execution. The question paper of theory examination was in MCQ type of 40 questions with four multiple choices. Practical examination was also taken on this course for 20 marks. All the 60 students were present in both theory and practical examination. The result was prepared and certificates were also distributed to the students.


Dr. M.T. Wanjari and Mr. A.A. Bodkhe
Course Coordinator
Assistant Professor
Department of Computer Science
S.P.E.S. Am's Science College,
Congress Nagar, Nagpur



Shri Shivaji Education Society, Amravati's

SCIENCE COLLEGE

Congress Nagar, Nagpur-12 (M.S.), India



Accredited with CGPA of 3.51 at 'A+' grade by NAAC, Bangalore
A "College with Potential for Excellence" identified by UGC New Delhi.

Institutional Member of APQN

Recognized Centre for Higher Learning and Research
Mentor College under 'PARAMARSH Scheme', UGC, New Delhi

DEPARTMENT OF COMPUTER SCIENCE

Session 2023-2024

Free Certificate Course for College Students

Course Title: Certificate Course in Deep Learning

Duration – 30 Hours (10 Weeks)

Course Start from 29December 2023 to 06April2024

Course Coordinator: Dr. M. T. Wanjari & Mr. A. A. Bodkhe



To,
The Principal
SSES Amt's Science College,
Congress Nagar, Nagpur-12

Subject: For permission to conduct the add on courses in Computer
Science department during the session 2023-2024

Respected Sir,

This is to request you that, the teachers of Computer Science
department have prepared the syllabus and modules of the 30 hours
certificate courses for the session 2023-2024.


The details of the course module, syllabus and time table is
submitted here with.

Hence please permit to run the add on courses and oblige me

Thanking you

Yours sincerely

6/07/2023
Nagpur


Dr. [Name] [Designation]
[Institution Name]
[Address]
[City]

Permitted
NDhere

Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur

Department of Computer Science

NOTICE

Date: 01/12/2023

We are pleased to announce that the Department of Computer Science is offering a Certificate Course on **Deep Learning** for all M. Sc. (CS)/MCA Students free of cost starting from first week of December 2023.

Course Highlights:

- Introduction to Deep Learning
- Identify deep learning techniques
- Introduce ideas of artificial neural network
- Implementing deep learning model using TensorFlow and Pytorch
- Design deep learning model for machine learning problem

Course Duration: 10 Weeks (30 Hours)

Eligibility: Open to all students of M.Sc. (CS)/MCA. Shri Shivaji Education Society Amravati's, Science College. Congress Nagar, Nagpur

Registration: Interested students can register at the Department of Computer Science office on or before 11/12/2023.

Contact Information:

For further details, please contact:


Dr. Manish T. Wanjari


Mob.8329153206

Mr. Amol A. Bodkhe

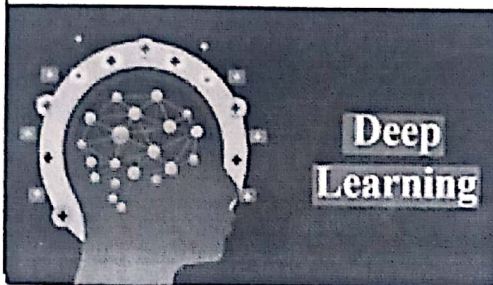
Mob.9423609630

Course Coordinator


Assistant Professor
Department of Computer Science
S.S.E.S. Amt's Science College,
Congress Nagar, Nagpur


Professor & Head
Department of Computer Science
S.S.E.S. Amt's Science College,
Congress Nagar, Nagpur

CERTIFICATE COURSE IN DEEP LEARNING (COMPUTER SCIENCE)



Course Objectives:

- 1) To understand major deep learning algorithms
- 2) To identify deep learning techniques
- 3) To introduce the idea of artificial neural networks and their architecture
- 4) To introduce techniques used for training artificial neural networks
- 5) To enable design of an artificial neural network for classification
- 6) To enable design and deployment of deep learning models for machine learning problems



Department of Computer Science
SSES Amt's Science College, Congress
Nagaj, Nagpur

Free Certificate Course for College Students

Duration – 30 Hours (10 Weeks)

Process of Registration -
Limited Seats Available

This Deep Learning course provides a comprehensive introduction to the principles and practices of deep learning. Students will explore neural networks, including feedforward, convolutional, and recurrent architectures. The course covers essential topics such as backpropagation, optimization techniques, and regularization methods. Practical sessions focus on implementing and training deep learning models using popular frameworks like TensorFlow and PyTorch. Applications in computer vision, natural language processing, and reinforcement learning are examined. By the end of the course, students will be equipped to design, train, and evaluate deep learning models for real-world tasks, preparing them for advanced research or industry roles in AI.

SSES Amravati's Science College, Congress Nagar, Nagpur-12

DEPARTMENT OF COMPUTER SCIENCE

COURSE MODULE AND SYLLABUS

Course Title: Certificate Course in Deep Learning (Computer Science)

Course Coordinator: Dr. M. T. Wanjari & Mr. A. A. Bodkhe

Course description:

This Deep Learning course provides a comprehensive introduction to the principles and practices of deep learning. Students will explore neural networks, including feedforward, convolutional, and recurrent architectures. The course covers essential topics such as backpropagation, optimization techniques, and regularization methods. Practical sessions focus on implementing and training deep learning models using popular frameworks like TensorFlow and PyTorch. Applications in computer vision, natural language processing, and reinforcement learning are examined. By the end of the course, students will be equipped to design, train, and evaluate deep learning models for real-world tasks, preparing them for advanced research or industry roles in AI.

Course Objectives:

- 1) To understand major deep learning algorithms.
- 2) To identify deep learning techniques
- 3) To introduce the idea of artificial neural networks and their architecture.
- 4) To introduce techniques used for training artificial neural networks.
- 5) To enable design of an artificial neural network for classification
- 6) To enable design and deployment of deep learning models for machine learning problems.

Instructional Strategies: Theory class, Practical, Video clips etc.

Evaluation Strategies: Oral discussions and Final MCQ examination.

Course outline: Course Outlines: (Relevance)

- 1) Understand the main fundamentals that drive Deep Learning
- 2) Be able to build, train and apply fully connected deep neural networks
- 3) Know how to implement efficient CNN or RNN.
- 4) Understand the key features in a neural network's architecture
- 5) Fundamentals of deep learning
- 6) Convolutional neural networks

- 7) Representation learning and generative learning
- 8) Deep learning applications and reinforcement learning and NLP

Course Outcomes (COs):

- 1) Able to understand the mathematics behind functioning of artificial neural networks
- 2) Able to analyze the given dataset for designing a neural network based solution
- 3) Able to carry out design and implementation of deep learning models for signal/image processing applications
- 4) Able to design and deploy simple TensorFlow-based deep learning solutions to classification problems
- 5) Solve various deep learning problems
- 6) Apply autoencoders for unsupervised learning problems
- 7) Implement Convolutional Neural Networks to image classification problems
- 8) Apply recurrent neural network to sequence Learning Problem.

Duration of course: Ten weeks (30 Hours)

The Structure of Syllabus and system of evaluation -

Course	Theory Papers and Practical	Total Marks	
		Theory	Practical
Certificate Course in Deep Learning	Theory paper- Deep Learning (Computer Science) * Theory examination will be of MCQ pattern having 40 questions each with equal marks.	80	20
	* Practical examination will be based on performance evaluation in the laboratory	100	

Asale

Coordinator

Prakash

IAAC Coordinator
Internal Quality Assurance Cell
(IQAC)
S. S. E. S. A. Science College,
Congress Nagar, Nagpur.

M. Shree

Principal
S. S. E. S. Amravati's
Science College, Nagpur.

SYLLABUS
Certificate course (10 weeks)
(Deep Learning (Computer Science))

Theory-

UNIT- I

Introduction to Deep Learning, Bayesian Learning, Decision Surfaces, Linear Classifiers, Linear Machines with Hinge Loss, Optimization Techniques, Gradient Descent, Batch Optimization, Introduction to Neural Network,

Unit-II

Multilayer Perceptron, Back Propagation Learning, Unsupervised Learning with Deep Network, Autoencoders, Convolutional Neural Network, Building blocks of CNN, Transfer Learning, Convolutional Neural Network, Building blocks of CNN, Transfer Learning, Effective training in Deep Net- early stopping, Dropout,

Unit-III

Batch Normalization, Instance Normalization, Group Normalization, Recent Trends in Deep Learning Architectures, Residual Network, Skip Connection Network, Fully Connected CNN etc, Classical Supervised Tasks with Deep Learning, Image Denoising, Semantic Segmentation, Object Detection etc, LSTM Networks, Generative Modeling with DL, Variational Autoencoder, Generative Adversarial Network, Revisiting Gradient Descent, Momentum Optimizer.

Practicals-

- a) Write a program to construct an Artificial Neural Network using medical data. Demonstrate the diagnosis of heart disease analysis and classification in patients using a standard Heart Disease Dataset.
- b) Write a program to construct an Artificial Neural Network using medical data. Demonstrate the diagnosis of diabetes prediction in patients using a standard diabetes dataset.
- c) Develop a program that constructs a Convolutional Neural Network (CNN) with medical data. Illustrate its use in predicting COVID diagnosis for patients using a standard COVID dataset.
- d) Create a program that utilizes data from a .csv file to build a Recurrent Neural Network (RNN). Illustrate its effectiveness by predicting Google stock prices using a well-known dataset.
- e) Develop a program leveraging a .csv dataset to construct an LSTM model. Illustrate its effectiveness by spam email classification using a well-known dataset.

Distribution of marks: -

1. Introduction to Deep Learning -	05
2. Introduction to Neural Network -	05
3. Implementation of CNN algorithm -	05
3. LSTM Networks Generative Modeling with DL-	05

Week-wise Teaching Plan:

Week	Hrs.	Syllabus
Week 1	1	Introduction to Deep Learning
	1	Bayesian Learning,
	1	Decision Surfaces Linear Classifiers
Week 2	1	Linear Machines with Hinge Loss Optimization Techniques
	2	Gradient Descent, Batch Optimization Introduction to Neural Network
Week 3	1	Multilayer Perceptron
	2	Back Propagation Learning Unsupervised Learning with Deep Network
Week 4	1	Autoencoders Convolutional Neural Network
	1	Building blocks of CNN
Week 5	2	Transfer Learning Convolutional Neural Network
	1	Building blocks of CNN
Week 6	2	Transfer Learning Effective training in Deep Net- early stopping, Dropout
	1	Batch Normalization, Instance Normalization
Week 7	2	Group Normalization Recent Trends in Deep Learning Architectures
	1	Residual Network, Skip Connection Network, Fully Connected CNN etc
Week 8	2	Classical Supervised Tasks with Deep Learning
	1	Image Denoising, Semantic Segmentation, Object Detection etc.
Week 9	2	LSTM Networks Generative Modeling with DL
	1	Variational Autoencoder
Week 10	1	Generative Adversarial Network Revisiting Gradient Descent
	2	Momentum Optimizer.

**SSES Amravati's Science College
Congress Nagar, Nagpur-12**


Certificate Course in Deep Learning (Computer Science)

Time Table

Day	Theory
Friday	MTW (B6) Theory 01.30 PM – 02.30 PM
Saturday	MTW (M.Sc. Lab.) practical, 01.30 PM – 02.30 PM
	AAB (B6) Theory, 02.30 PM – 03.30 PM

Asule


Assistant Professor
Department of Computer Science
S.S.E.S. Amt's Science College,
Congress Nagar, Nagpur


Professor & Head
Department of Computer Science
S S E S Amt's Science College,
Congress Nagar Nagpur

SSESA's, Science College, Congress Nagar, Nagpur
Certificate Course in Deep Learning

Students Registration List

Session 2023-24

Sr. No.	Name of Students	Signature
1.	Achal Ashok Kale	A. kale
2.	Akanksha Rajesh Singh	singh
3.	Ashish Sudhir Waikar	Awaikar
4.	Ashwini Sunil Mulak	Mulak
5.	Chaitali Arvind Shripatre	Chaitali patre
6.	Divyani Suresh Rao Chandore	D. Chandore
7.	Hemlata Sahebrao Sawankar	Hemlata
8.	Janhvi Ramesh Kumbhalkar	Janhvi
9.	Kalyani Rajesh Kolarkar	Kolarkar
10.	Kanchan Wasudeo Gondhale	Gondhale
11.	Leena Siddharth Dupare	Leena
12.	Manisha Mahadeo Rao Ingole	Manisha
13.	Preeti Ajay Kumar Rai	Preeti
14.	Rashmi Chandrashekhar Ashtankar	Rashmi
15.	Rasika Ganesh Taralekar	Rasika
16.	Ritika Mahesh Motwani	Ritika
17.	Riya Ajay Rai	Riya
18.	Sakshi Prakash Manapure	Sakshi
19.	Sampada Rajendra Navghare	Sampada
20.	Samruddhi Sanjay Telang	Samruddhi
21.	Saumya Prabhakar Dakhole	Dakhole
22.	Sejal Krishnakant Jakanwar	Sejal
23.	Sejal Ranjendra Raut	Raut
24.	Shruti Suresh Dekate	Shruti
25.	Shweta Suresh Vaidya	Shweta
26.	Simran Ravindrakadbe	Simran
27.	Sparsh Vijay Gajbhiye	Sparsh
28.	Triveni Vasudev Manigam	Triveni
29.	Vidhi Dhiraj Mishra	Vidhi
30.	Yashashree Sudhakar Bobade	Yashashree
31.	Prabhjot Vikramjeet Arora	Prabhjot
32.	Jatin Tekam	Jatin
33.	Sejal Hadke	Sejal
34.	Bhavika Raut	Bhavika
35.	praful borkute	praful
36.	Khushi Sanodiya	Khushi

37.	Manisha Lautre	(M. Lautre)
38.	Ankita Zalke	A. Zalke
39.	Divya Mendhe	Divya...
40.	Sana Firdous Shahid Ahmad	Sana
41.	Dhanashree Kulkarni	Dhanashree
42.	Mayuri M. Bisen	M. Bisen
43.	Janvi Deshmukh	Janvi Deshmukh
44.	Sakshi Babanrao Pawar	Sakshi
45.	Lina Sunil Datir	L. Datir
46.	Sejal Nitin Waghe	Sejal N
47.	Shweta Rewalal Yele	(Shweta)
48.	Harshal Vijay Masram	Harshal V
49.	Srushti Anil Zade	Srushti
50.	Bhushan Bagde	Bhushan
51.	Piyush Vinod Agre	P. Agre
52.	Humera Salim Ahmed Khan	H. Khan
53.	Vaishnavi Bhusari	Vaishnavi
54.	Punam Omprakash Gotmare	Punam
55.	Chinmay Bhake	Chinmay
56.	Yashashree Langde	Y. Langde
57.	Vedankita Mohod	V. Mohod
58.	Rajsi Kingri	R. Kingri
59.	Aachal Churhe	A. Churhe
60.	Yewati Kinkar	Y. Kinkar


Coordinator

Department of Computer Science
Assistant Professor
Department of Computer Science
S.S.E.S. Am's Science College,
Congress Nagar, Nagpur



Head
Department of Computer Science

Professor & Head
Department of Computer Science
S.S.E.S. Am's Science College,
Congress Nagar, Nagpur

S. N.	Roll No.	Name of Students	Periods →	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
			Date →	19/12/23	30/12/23	05/01/24	08/01/24	14/01/24	22/01/24	30/01/24	05/02/24	12/02/24	19/02/24	27/02/24	05/03/24	12/03/24	20/03/24	27/03/24	04/04/24	11/04/24	18/04/24	25/04/24	02/05/24
			Contact No.																				
1.	101	Achal Ashok Kale		P	P	P	P	.	P	P	P	P	P	.	P	P	P	P	P	P	P	.	P
2.	102	Akanksha Rajesh Singh		P	.	P	P	P	P	P	P	P	P	.	P	P	P	P	P	P	P	P	P
3.	103	Ashish Sudhir Waikar		P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P	P	P	P	P
4.	104	Ashwini Sunil Mulak		P	P	.	P	P	P	P	P	P	P	.	P	P	P	P	P	P	P	.	P
5.	105	Chaitali Arvind Shripatre		P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P	P	P	.	P
6.	106	Divyani Sureshrao Chandore		P	P	P	P	.	P	P	P	P	P	.	P	P	P	P	P	P	P	P	P
7.	107	Hemlata Sahebrao Sawankar		P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P	P	P	P	P
8.	108	Janhvi Ramesh Kumbhalkar		.	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P	P	P	P	P
9.	109	Kalyani Rajesh Kolarkar		P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P	P	P	P	P
10.	110	Kanchan Wasudeo Gondhale		P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P	P	P	P	P
11.	111	Leena Siddharth Dupare		P	P	P	.	P	P	P	P	P	P	.	P	P	P	P	P	P	P	P	P
12.	112	Manisha Mahadeorao Ingole		P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P	P	P	P	P
13.	113	Preeti Ajaykumar Rai		P	.	P	P	P	P	P	P	P	P	.	P	P	P	P	P	P	P	P	P
14.	114	Rashmi Chandrashekhar Ashtankar		.	P	P	P	P	P	P	.	P	P	.	P	P	P	P	P	P	P	P	P
15.	115	Rasika Ganesh Taralekar		P	P	P	P	P	.	P	P	P	P	P	P	P	.	P	P	P	P	P	P
16.	116	Ritika Mahesh Motwani		P	P	.	P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P	P
17.	117	Riya Ajay Rai		.	P	P	P	P	P	P	.	P	P	P	P	P	.	P	P	P	P	P	P
18.	118	Sakshi Prakash Manapure		P	P	P	P	P	P	P	.	P	P	P	P	P	.	P	P	P	P	P	P
19.	119	Sampada Rajendra Navghare		P	.	P	P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P	P
20.	120	Samruddhi Sanjay Telang		P	P	P	P	.	P	P	P	P	P	P	P	P	.	P	P	P	P	P	P
21.	121	Saumya Prabhakar Dakhole		.	P	.	P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P	P
22.	122	Sejal Krishnakant Jakanwar		P	P	P	P	P	.	P	P	P	P	P	P	P	.	P	P	P	P	P	P
23.	123	Sejal Ranjendra Raut		P	P	.	P	P	P	P	P	P	P	.	P	P	P	P	P	P	P	P	P
24.	124	Shruti Suresh Dekate		P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P	P	P	P	P
25.	125	Shweta Suresh Vaidya		P	P	.	P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P	P
26.	126	Simran Ravindra kadbe		P	P	P	P	.	P	P	P	P	P	P	P	P	.	P	P	P	P	P	P
27.	127	Sparsh Vijay Gajbhiye		P	P	P	.	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P	P
28.	128	Triveni Vasudev Manigam		.	.	P	P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P	P
29.	129	Vidhi Dhiraj Mishra		P	P	.	P	P	P	P	P	P	P	.	P	P	P	P	P	P	P	P	P

30.	130	Yashashree Sudhakar Bobade	P	P	P	.	P	P	.	P	P	P	P	P	P	P	P	.	P	P	P	P	P
31.	131	Prabhjot Vikramjeet Arora	P	P	P	P	.	P	P	.	P	P	P	P	P	P	P	.	P	P	P	P	P
32.	132	Jatin Tekam	.	P	P	P	P	P	P	.	P	P	P	P	P	P	P	.	P	P	P	P	P
33.	133	Sejal Hadke	P	P	P	.	P	P	P	.	P	P	P	P	P	P	P	.	P	P	P	P	P
34.	134	Bhavika Raut	P	P	P	P	P	P	.	P	P	P	P	P	P	P	P	.	P	P	P	P	P
35.	135	praful borkute	P	P	P	.	P	P	P	.	P	P	P	P	P	P	P	.	P	P	P	P	P
36.	136	Khushi Sanodiya	.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P
37.	137	Manisha Lautre	P	P	P	.	P	P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P
38.	138	Ankita Zalke	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P
39.	139	Divya Mendhe	P	.	P	P	P	P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P
40.	140	Sana Firdous Shahid Ahmad	.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P
41.	141	Dhanashree Kulkarni	P	.	P	P	P	P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P
42.	142	Mayuri M. Bisen	P	P	.	P	P	P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P
43.	143	Janvi Deshmukh	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P
44.	144	Sakshi Babanrao Pawar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P
45.	145	Lina Sunil Datir	.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P
46.	146	Sejal Nitin Waghe	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P
47.	147	Shweta Rewlal Yele	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P
48.	148	Harshal Vijay Masram	P	.	P	P	P	P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P
49.	149	Srushti Anil Zade	.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P
50.	150	Bhushan Bagde	P	.	P	P	P	P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P
51.	151	Piyush Vinod Agre	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P
52.	152	Humera Salim Ahmed Khan	P	.	P	P	P	P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P
53.	153	Vaishnavi Bhusari	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P
54.	154	Punam Omprakash Gotmare	.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P
55.	155	Chinmay Bhake	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P
56.	156	Yashashree Langde	P	.	P	P	P	P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P
57.	157	Vedankita Mohod	.	P	P	.	P	P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P
58.	158	Rajsi Kingri	.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P
59.	159	Aachal churhe	P	.	P	P	P	P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P
60.	160	Yewati Kinkar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P

(Signature)

Coordinator
Department of Computer Science

(Signature)

(Signature)
for Head of Department
Department of Computer Science
Professor & Head
Department of Computer Science
S S F S Am's Science College.

S. N.	Roll No.	Name of Students	Periods →	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
			Date →	30/12/23	31/12/23	01/01/24	02/01/24	03/01/24	04/01/24	05/01/24	06/01/24	07/01/24	08/01/24	09/01/24	10/01/24								
			Contact No.																				
1.	101	Achal Ashok Kale		P	P		P	P	P	P	P	P	P										
2.	102	Akanksha Rajesh Singh			P	P	P	P	P	P	P	P	P										
3.	103	Ashish Sudhir Waikar		P	P	P	P	P	P	P	P	P	P										
4.	104	Ashwini Sunil Mulak			P	P	P	P	P	P	P	P	P										
5.	105	Chaitali Arvind Shripatre		P	P	P		P	P	P	P	P											
6.	106	Divyani Suresh Rao Chandore		P		P	P	P	P	P	P	P	P										
7.	107	Hemlata Sahebrao Sawankar		P	P	P		P	P	P	P	P	P										
8.	108	Janhvi Ramesh Kumbhalkar		P	P	P	P	P		P	P	P	P										
9.	109	Kalyani Rajesh Kolarkar		P	P	P	P	P	P	P		P	P										
10.	110	Kanchan Wasudeo Gondhale		P	P	P		P	P	P	P		P										
11.	111	Leena Siddharth Dupare		P	P	P	P	P	P		P	P	P										
12.	112	Manisha Mahadeorao Ingole		P	P	P		P	P	P	P	P	P										
13.	113	Preeti Ajaykumar Rai			P	P	P	P	P	P	P	P	P										
14.	114	Rashmi Chandrashekhar Ashtankar		P	P	P	P		P	P	P	P	P										
15.	115	Rasika Ganesh Taralekar		P		P	P	P	P	P	P	P	P										
16.	116	Ritika Mahesh Motwani			P	P	P	P		P	P	P											
17.	117	Riya Ajay Rai		P		P	P		P	P	P	P	P										
18.	118	Sakshi Prakash Manapure		P	P	P		P	P	P	P	P	P										
19.	119	Sampada Rajendra Navghare		P	P		P	P	P	P	P	P	P										
20.	120	Samruddhi Sanjay Telang		P	P	P	P	P	P		P	P	P										
21.	121	Saumya Prabhakar Dakhole		P	P	P		P		P	P	P	P										
22.	122	Sejal Krishnakant Jakanwar		P	P		P	P	P	P	P	P	P										
23.	123	Sejal Ranendra Raut		P	P	P	P	P	P	P	P	P	P										
24.	124	Shruti Suresh Dekate		P	P	P		P	P	P	P	P	P										
25.	125	Shweta Suresh Vaidya			P	P	P	P	P	P	P	P	P										
26.	126	Simran Ravindra kadbe		P	P	P	P	P		P	P	P											
27.	127	Sparsh Vijay Gajbhiye		P	P	P	P		P	P	P	P	P										
28.	128	Triveni Vasudev Manigam			P	P	P	P	P	P	P	P	P										
29.	129	Vidhi Dhiraj Mishra			P	P	P	P	P	P	P	P											

30.	130	Yashashree Sudhakar Bobade	P		P	P	P	P	P	P	P	P									
31.	131	Prabhjot Vikramjeet Arora		P	P	P	P	P	P	P	P	P									
32.	132	Jatin Tekam		P	P	P	P	P	P	P	P	P									
33.	133	Sejal Hadke	P		P	P	P	P	P	P	P	P									
34.	134	Bhavika Raut	P	P	P		P	P	P	P	P	P									
35.	135	praful borkute	P	P	P		P	P	P	P	P	P									
36.	136	Khushi Sanodiya	P	P	P	P	P	P	P		P	P									
37.	137	Manisha Lautre		P	P	P	P	P	P		P	P									
38.	138	Ankita Zalke	P	P	P	P	P		P	P	P	P									
39.	139	Divya Mendhe		P	P	P	P	P	P	P	P	P									
40.	140	Sana Firdous Shahid Ahmad	P	P	P		P	P	P	P	P	P									
	141	Dhanashree Kulkarni		P	P	P	P	P	P	P	P	P									
42.	142	Mayuri M. Bisen	P		P	P	P	P		P	P	P									
43.	143	Janvi Deshmukh	P	P	P		P	P	P	P	P	P									
44.	144	Sakshi Babanrao Pawar	P	P	P	P	P	P	P		P	P									
45.	145	Lina Sunil Datir		P	P	P	P	P	P	P	P	P									
46.	146	Sejal Nitin Waghe	P		P	P	P	P	P	P		P									
47.	147	Shweta Rewalal Yele	P	P	P		P	P	P	P	P	P									
48.	148	Harshal Vijay Masram		P	P	P	P	P	P	P	P	P									
49.	149	Srushti Anil Zade	P	P	P	P	P	P	P	P	P	P									
50.	150	Bhushan Bagde	P		P	P	P		P	P	P	P									
51.	151	Piyush Vinod Agre	P	P	P	P	P	P	P	P	P	P									
52.	152	Humera Salim Ahmed Khan		P	P	P	P	P	P	P	P	P									
53.	153	Vaishnavi Bhusari	P	P		P	P	P	P	P	P	P									
54.	154	Punam Omprakash Gotmare	P	P	P		P	P	P	P	P	P									
55.	155	Chinmay Bhake	P	P	P	P	P		P	P	P	P									
56.	156	Yashashree Langde	P		P	P	P	P	P	P	P	P									
	157	Vedankita Mohod		P		P	P	P	P	P	P	P									
58.	158	Rajsi Kingri	P	P	P		P	P	P	P	P	P									
59.	159	Aachal churhe	P	P		P	P	P	P	P	P	P									
60.	160	Yewati Kinkar	P		P	P	P	P	P	P	P	P									

(Signature)
Coordinator

Department of Computer Science
Assistant Professor
Department of Computer Science
S.S.E. Am's Science College.

(Signature)

Head of Department
Department of Computer Science
Department of Computer Science
S.S.E. Am's Science College.
Congress Nagar, Nashik

**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur**

Department of Computer Science

Certified Course on Deep Learning

Announcement of Theory and Practical Examination Dates for Deep Learning Certificate Course

NOTICE

Date: 06/04/2024

This is to inform all students enrolled in the Certificate Course on Deep Learning that the dates for the Theory and Practical Examinations have been scheduled as follows:

Theory Examination:

Date: **12 April 2024, Friday**

Time: 01:30 pm to 02:30 pm

Venue: Room No B6

Practical Examination:

Date: **13 April 2024, Saturday**


Time: 01:30 pm to 02:30 pm


Venue: M. Sc. Lab., 1st Floor

All students are required to be present at the examination venue at least 15 minutes before the scheduled time. Please ensure you bring your college ID card and any other necessary materials.

For any further queries, please contact the Department of Computer Science office.

Dr. Manish T. Wanjari
Mr. Amol A. Bodkhe
Course Co-ordinator


Assistant Professor
Department of Computer Science
S.S.E.S. Amt's Science College
Congress Nagar, Nagpur


Professor & Head
Department of Computer Science
S.S.E.S. Amt's Science College.
Congress Nagar Nagpur

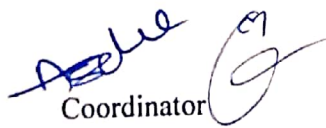


SSESA's, Science College, Congress Nagar, Nagpur
Certificate Course in Deep Learning

Theory Examination
Students Attendance List
Session 2023-24

Sr. No.	Name of Students	Signature
1.	Achal Ashok Kale	Akale
2.	Akanksha Rajesh Singh	Akanksha Singh
3.	Ashish Sudhir Waikar	Ashish Waikar
4.	Ashwini Sunil Mulak	Ashwini Mulak
5.	Chaitali Arvind Shripatre	Chaitali Shripatre
6.	Divyani Suresh Rao Chandore	Divyani Chandore
7.	Hemlata Sahebrao Sawankar	Hemlata Sawankar
8.	Janhvi Ramesh Kumbhalkar	Janhvi Kumbhalkar
9.	Kalyani Rajesh Kolarkar	Kalyani Kolarkar
10.	Kanchan Wasudeo Gondhale	Kanchan Gondhale
11.	Leena Siddharth Dupare	Leena Dupare
12.	Manisha Mahadeo Rao Ingole	Manisha Ingole
13.	Preeti Ajay Kumar Rai	Preeti Rai
14.	Rashmi Chandrashekhar Ashtankar	Rashmi Ashtankar
15.	Rasika Ganesh Taralekar	Rasika Taralekar
16.	Ritika Mahesh Motwani	Ritika Motwani
17.	Riya Ajay Rai	Riya Rai
18.	Sakshi Prakash Manapure	Sakshi Manapure
19.	Sampada Rajendra Navghare	Sampada Navghare
20.	Samruddhi Sanjay Telang	Samruddhi Telang
21.	Saumya Prabhakar Dakhole	Saumya Dakhole
22.	Sejal Krishnakant Jakanwar	Sejal Jakanwar
23..	Sejal Ranjendra Raut	Sejal Raut
24.	Shruti Suresh Dekate	Shruti Dekate
25.	Shweta Suresh Vaidya	Shweta Vaidya
26.	Simran Ravindra Kadbe	Simran Kadbe
27.	Sparsh Vijay Gajbhiye	Sparsh Gajbhiye
28.	Triveni Vasudev Manigam	Triveni Manigam
29.	Vidhi Dhiraj Mishra	Vidhi Mishra
30.	Yashashree Sudhakar Bobade	Yashashree Bobade
31.	Prabhjot Vikramjeet Arora	Prabhjot Arora
32.	Jatin Tekam	Jatin Tekam
33.	Sejal Hadke	Sejal Hadke
34.	Bhavika Raut	Bhavika Raut

35.	prafulborkute	P. Borkute P. Borkute...
36.	KhushiSanodiya	P. Sanodiya
37.	Manisha Lautre	M. Lautre
38.	AnkitaZalke	A. Zalke
39.	DivyaMendhe	Divya
40.	Sana FirdousShahid Ahmad	Sana
41.	Dhanashree Kulkarni	Dhanashree
42.	Mayuri M. Bisen	M. Bisen
43.	JanviDeshmukh	JanviDeshmukh
44.	SakshiBabanraoPawar	S. Pawar
45.	Lina Sunil Datir	L. Datir
46.	Sejal Nitin Waghe	Sejal. W
47.	Shweta RewalalYele	Shweta
48.	Harshal Vijay Masram	Harshal. V
49.	Srushti Anil Zade	Szade
50.	BhushanBagde	Bhushan
51.	Piyush Vinod Agre	P. Agre
52.	Humera Salim Ahmed Khan	H. Khan
53.	VaishnaviBhusari	Vaish
54.	PunamOmprakashGotmare	Punam
55.	ChinmayBhake	Chinmay
56.	YashashreeLangde	Y. Langde
57.	VedankitaMohod	V. Mohod
58.	RajsiKingri	R. Kingri
59.	Aachalchurhe	A. Churhe
60.	YewatiKinkar	Y. Kinkar


Coordinator

Department of Computer Science
Assistant Professor
Department of Computer Science
S.S.E.S. Am't's Science College,
Congress Nagar, Nagpur



Head
Department of Computer Science
Professor & Head
Department of Computer Science
S.S.E.S. Am't's Science College,
Congress Nagar, Nagpur

SSESA's, Science College, Congress Nagar, Nagpur
Certificate Course in Deep Learning

Practical Examination
Students Attendance List
Session 2023-24

Sr. No.	Name of Students	Signature
1.	Achal Ashok Kale	A.kale
2.	Akanksha Rajesh Singh	A Singh
3.	Ashish Sudhir Waikar	A.waikar
4.	Ashwini Sunil Mulak	A.Mulak
5.	Chaitali Arvind Shripatre	C.shripatre
6.	Divyani Suresh Rao Chandore	D.Chandore
7.	Hemlata Sahebrao Sawankar	H.Sawankar
8.	Janhvi Ramesh Kumbhalkar	J.Kumbhalkar
9.	Kalyani Rajesh Kolarkar	K.kolarkar
10.	Kanchan Wasudeo Gondhale	K.Gondhale
11.	Leena Siddharth Dupare	L.Dupare
12.	Manisha Mahadeo Rao Ingole	M.Ingole
13.	Preeti Ajay Kumar Rai	P.Rai
14.	Rashmi Chandrashekhar Ashtankar	R.Ashtankar
15.	Rasika Ganesh Taralekar	R.Taralekar
16.	Ritika Mahesh Motwani	R.Motwani
17.	Riya Ajay Rai	R.Rai
18.	Sakshi Prakash Manapure	S.Manapure
19.	Sampada Rajendra Navghare	S.Navghare
20.	Samruddhi Sanjay Telang	S.Telang
21.	Saumya Prabhakar Dakhole	S.Dakhole
22.	Sejal Krishnakant Jakanwar	S.Jakanwar
23..	Sejal Ranjendra Raut	S.Raut
24.	Shruti Suresh Dekate	S.Dekate
25.	Shweta Suresh Vaidya	S.Vaidya
26.	Simran Ravindrakadbe	S.Kadbe
27.	Sparsh Vijay Gajbhiye	S.Gajbhiye
28.	Triveni Vasudev Manigam	T.Manigam
29.	Vidhi Dhiraj Mishra	V.Mishra
30.	Yashashree Sudhakar Bobade	Y.Bobade
31.	Prabhjot Vikramjeet Arora	P.Arora
32.	Jatin Tekam	J.Tekam
33.	Sejal Hadke	S.Hadke
34.	Bhavika Raut	B.Raut

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37.	Manisha Lautre	M. Lautre
38.	AnkitaZalke	A. Zalke
39.	DivyaMendhe	D. Mendhe
40.	Sana FirdousShahid Ahmad	S. Firdous
41.	Dhanashree Kulkarni	D. Kulkarni
42.	Mayuri M. Bisen	M. Bisen
43.	JanviDeshmukh	J. Deshmukh
44.	SakshiBabanraoPawar	S. Pawar
45.	Lina Sunil Datir	L. Datir
46.	Sejal Nitin Waghe	S. Waghe
47.	Shweta RewalalYele	S. Yele
48.	Harshal Vijay Masram	H. Masram
49.	Srushti Anil Zade	S. Zade
50.	BhushanBagde	B. Bagde
51.	Piyush Vinod Agre	P. Agre
52.	Humera Salim Ahmed Khan	H. Khan
53.	VaishnaviBhusari	V. Bhusari
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55.	ChinmayBhake	C. Bhake
56.	YashashreeLangde	Y. Langde
57.	VedankitaMohod	V. Mohod
58.	RajsiKingri	R. Kingri
59.	Aachalchurhe	A. Churhe
60.	YewatiKinkar	Y. Kinkar


Coordinator

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Head
Department of Computer Science
Professor & Head
Department of Computer Science
S.S.E.S. Am's Science College,
Congress Nagar, Nagpur

SSES Amravati's Science College, Congress Nagar, Nagpur-12

DEPARTMENT OF COMPUTER SCIENCE

Final Examination

Session 2023-2024

Add - on Certificate Course in Deep Learning

Students Name: Achal Ashole Kale Maximum Marks: 80

Roll No: 101 Date: 12/04/2024 Time: 1 HOUR

Name and Signature of Invigilator: A. A. Bodide Ashole

Note: 1. All Questions are compulsory and carry equal marks.

2. Tick the Correct option only.

1. What is Deep Learning?

- A) A subset of Machine learning that involves neural networks with many layers.
- B) A data preprocessing technique.
- C) A type of database management system.
- D) A programming language.

2. Which of the following is a popular framework for Deep Learning?

- A) Tensor Flow
- B) MySQL
- C) Hadoop
- D) Spark

3. In Bayesian Learning, what does the posterior probability represent?

- A) The initial belief about a hypothesis.
- B) The probability of the data given the hypothesis.
- C) The updated belief after observing the data.
- D) The overall probability of the data.

4. What is Bayes' theorem used for in Bayesian Learning?

- A) To calculate the likelihood of data.
- B) To update the probability estimate for a hypothesis.
- C) To generate random samples.
- D) To determine the maximum likelihood estimate.

5. What is a decision surface in machine learning?

- A) A tool for data preprocessing.
- B) A boundary that separates different classes.
- C) An algorithm for clustering data.
- A) technique for reducing dimensionality.

6. Which of the following best describes the decision surface of a linear classifier?

- A) A non-linear curve.
- B) A hyperplane.
- C) A cluster of points.
- D) A decision tree.

7. Which loss function is commonly used in linear classifiers?

- A) Mean Squared Error
- B) Cross-Entropy Loss
- C) Hinge Loss
- D) Log Loss

8. What does the term "linear" in linear classifiers refer to?

- A) The linearity of the decision boundary.
- B) The linearity of the data distribution.
- C) The linear complexity of the algorithm.
- D) The linear relationship between features.



9. What is the goal of hinge loss in SVMs?

- A) To minimize the distance between data points and the hyperplane.
- B) To maximize the margin between classes.
- C) To reduce the number of features.
- D) To increase the number of support vectors.

10. In hinge loss optimization, what happens when a data point is correctly classified and falls outside the margin?

- A) The loss is zero.
- B) The loss is maximized.
- C) The loss is minimized but not zero.
- D) The loss is constant.

11. What is the primary purpose of optimization techniques in machine learning?

- A) To find the best hyperparameters.
- B) To improve the speed of the algorithm.
- C) To minimize the loss function.
- D) To preprocess the data.

12. Which of the following is a common optimization technique used in training neural networks?

- A) Gradient Descent
- B) k-Nearest Neighbors
- C) Principal Component Analysis
- D) Random Forests

13. What is the main idea behind Gradient Descent?

- A) To ascend the gradient of the loss function.
- B) To iteratively update parameters in the direction of the steepest increase.
- C) To iteratively update parameters in the direction of the steepest decrease.
- D) To use the gradient to transform features.

14. Which of the following is a variant of Gradient Descent?

- A) Newton's Method
- B) Backpropagation
- C) Stochastic Gradient Descent (SGD)
- D) Support Vector Machines

15. In the context of batch optimization, what is a "batch"?

- A) A single data point used for training.
- B) A subset of the dataset used for one iteration of optimization.
- C) The entire dataset used for training.
- D) The final trained model.

16. What is the main objective of the backpropagation algorithm?

- A) Increase the complexity of the model
- B) Minimize the cost function
- C) Maximize the output of the neural network
- D) Add more layers to the network

17. In a Multilayer Perceptron (MLP), which of the following activation functions is commonly used?

- A) Linear
- B) Sigmoid
- C) Step function
- D) Hyperbolic tangent (tanh)

18. What is the primary purpose of an autoencoder?

- A) Classification of data
- B) Dimensionality reduction
- C) Predicting future data points
- D) Clustering data

19. In an autoencoder, what is the role of the encoder?

- A) To reconstruct the input data
- B) To compress the input data into a lower-dimensional representation
- C) To classify the input data
- D) To increase the dimensionality of the input data

20. Which of the following is a key component of a Convolutional Neural Network (CNN)?

- A) Recurrent layers
- B) Convolutional layers
- C) Fully connected layers
- D) Both B and C

21. What is the purpose of pooling layers in a CNN?

- A) To increase the dimensionality of the feature maps
- B) To reduce the computational complexity
- C) To introduce non-linearity
- D) To connect layers of the network

22. In transfer learning, which part of a pre-trained network is typically reused?

- A) The input layer
- B) The final output layer
- C) The feature extraction layers
- D) The optimizer

23. What is the main purpose of early stopping in training neural networks?

- A) To decrease training time
- B) To prevent overfitting
- C) To reduce the learning rate
- D) To increase the size of the dataset

24. How does dropout help in regularizing a neural network?

- A) By adding noise to the input data
- B) By removing random neurons during training
- C) By increasing the number of neurons
- D) By decreasing the learning rate

25. Which of the following is a common activation function used in CNNs?

- A) Sigmoid
- B) ReLU (Rectified Linear Unit)
- C) Softmax
- D) Step function

26. What type of learning is used in autoencoders?

- A) Supervised learning
- B) Unsupervised learning
- C) Reinforcement learning
- D) Semi-supervised learning

27. Which of the following techniques is used to prevent overfitting in neural networks?

- A) Increasing the number of epochs
- B) Using a larger batch size
- C) Applying dropout
- D) Using a linear activation function

28. What is the primary purpose of Batch Normalization in deep neural networks?

- A. To reduce the number of layers
- B. To stabilize and accelerate training
- C. To increase the model complexity
- D. To perform feature scaling

29. How does Instance Normalization differ from Batch Normalization?

- A. It normalizes across the batch dimension
- B. It normalizes each instance separately
- C. It normalizes across groups of instances
- D. It does not normalize at all

30. Group Normalization is particularly useful in which scenario?

- A. Small batch sizes
- B. Large batch sizes

C. Only for recurrent neural networks D. When using non-linear activation functions

31. What is a key characteristic of Residual Networks (ResNets)?

- A. Use of deep layers without any connections B. Inclusion of skip connections to mitigate vanishing gradients
C. Reliance solely on convolutional layers D. Absence of normalization techniques

32. What is a Skip Connection in neural networks?

- A. A technique to skip training on certain batches B. A connection that bypasses one or more layers
C. A type of layer that skips input normalization D. A dropout mechanism

33. What is the advantage of a Fully Connected Convolutional Network (FCCN)?

- A. It only uses fully connected layers B. It applies convolutional layers to any input size
C. It is more efficient than standard convolutional networks D. It performs classification without any convolutional layers

34. Which task involves predicting pixel-wise class labels in an image?

- A. Image Classification B. Image Denoising
C. Semantic Segmentation D. Object Detection

35. Which deep learning task focuses on removing noise from images?

- A. Semantic Segmentation B. Image Denoising
C. Object Detection D. Image Classification

36. What does Object Detection aim to achieve in an image?

- A. Classifying the entire image into a category
B. Identifying and localizing objects within the image
C. Denoising the image
D. Segmenting the image into different regions

37. What does LSTM stand for in neural networks?

- A. Long Short-Term Memory B. Large Scale Temporal Memory
C. Long Sequence Training Model D. Least Square Temporal Model

38. What is a primary advantage of LSTM networks over traditional RNNs?

- A. Simpler architecture B. Better handling of long-term dependencies
C. Faster training time D. Lower computational requirements

39. Which of the following components is used to reduce the spatial dimensions of feature maps in CNNs?

- A. Convolutional layer B. Pooling layer
C. Fully connected layer D. Dropout layer

40. What distinguishes a Variational Autoencoder (VAE) from a traditional autoencoder?

- A. It uses a deterministic approach to encoding B. It introduces stochasticity to the encoding process
C. It does not use a decoder D. It is designed for supervised learning tasks

SSES Amravati's Science College, Congress Nagar, Nagpur-12

DEPARTMENT OF COMPUTER SCIENCE

Final Examination

Session 2023-2024

Add - on Certificate Course in Deep Learning
Practical Exam

Maximum Marks: 20

Students Name: Achal Ashole Kale

Roll No: 101 Date: 13/04/2024 Time: 1 HOUR

Name and Signature of Invigilator: A. A. Bodido Ashole.

Solve Any One

1. A) Write a program to construct an Artificial Neural Network using medical data. Demonstrate the diagnosis of heart disease analysis and classification in patients using a standard Heart Disease Dataset.
B) Write a program to construct an Artificial Neural Network using medical data. Demonstrate the diagnosis of diabetes prediction in patients using a standard diabetes dataset.

OR

2. A) Develop a program that constructs a Convolutional Neural Network (CNN) with medical data. Illustrate its use in predicting COVID diagnosis for patients using a standard COVID dataset.
B) Create a program that utilizes data from a .csv file to build a Recurrent Neural Network (RNN). Illustrate its effectiveness by predicting Google stock prices using a well-known dataset.



Shri Shivaji Education Society, Amravati's
SCIENCE COLLEGE
 Congress Nagar, Nagpur-12 (M.S.), India



Accredited with CGPA of 3.51 at 'A+' grade by NAAC, Bangalore
 A "College with Potential for Excellence" Identified by UGC New Delhi.
 Institutional Member of APQN
 Recognized Centre for Higher Learning and Research
 Mentor College under 'PARAMARSH Scheme', UGC, New Delhi

Add-on Course

**Course Exam Name: Certificate Course in Deep Learning
 Theory Examination Answer Key**

Name of Student:		INSTRUCTIONS FOR FILLING THE SHEET 1. This sheet should not be folded or crushed. 2. Use only blue/ black ball point pen to fill the circles. 3. Use of pencil is strictly prohibited. 4. Circles should be darkened completely and properly. 5. Cutting and erasing on this sheet is not allowed. 6. Do not use any stray marks on the sheet. 7. Do not use marker or white fluid to hide the mark.	
Roll No.:	<input type="text"/>	Session: 2023-24	
Test Date: 12/04/2024		Max. Marks: 80	
Invigilator Signature		Obtained Marks:	<input type="text"/>

WRONG METHODS **CORRECT METHOD**

 ✗ ✎ ✍ ✓ ○ ○ ○ ○ ●

1	A B C D	11	A B C D	21	A B C D	31	A B C D	41	A B C D
2	A B C D	12	A B C D	22	A B C D	32	A B C D	42	A B C D
3	A B C D	13	A B C D	23	A B C D	33	A B C D	43	A B C D
4	A B C D	14	A B C D	24	A B C D	34	A B C D	44	A B C D
5	A B C D	15	A B C D	25	A B C D	35	A B C D	45	A B C D
6	A B C D	16	A B C D	26	A B C D	36	A B C D	46	A B C D
7	A B C D	17	A B C D	27	A B C D	37	A B C D	47	A B C D
8	A B C D	18	A B C D	28	A B C D	38	A B C D	48	A B C D
9	A B C D	19	A B C D	29	A B C D	39	A B C D	49	A B C D
10	A B C D	20	A B C D	30	A B C D	40	A B C D	50	A B C D



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 Mentor College under 'PARAMARSH Scheme', UGC, New Delhi

<u>Add-on Course</u>				
Course Exam Name: Certificate Course in Deep Learning Theory Examination				
Name of Student: <i>Achal Ashok Kale</i>		INSTRUCTIONS FOR FILLING THE SHEET 1. This sheet should not be folded or crushed. 2. Use only blue/ black ball point pen to fill the circles. 3. Use of pencil is strictly prohibited. 4. Circles should be darkened completely and properly. 5. Cutting and erasing on this sheet is not allowed. 6. Do not use any stray marks on the sheet. 7. Do not use marker or white fluid to hide the mark. WRONG METHODS CORRECT METHOD 		
Roll No.:	0			Session: 2023-24
Test Date: 12/04/2024	Max. Marks: 80			
Invigilator Signature <i>A. Kale</i>	Obtained Marks:			<input style="width: 50px; height: 30px;" type="text"/>

A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D					
1	●	○	○	○	11	○	○	●	○	21	○	●	○	○	31	○	●	○	○	41	○	○	○	○
2	●	○	○	○	12	○	○	○	○	22	○	○	●	○	32	○	●	○	○	42	○	○	○	○
3	○	○	●	○	13	○	○	●	○	23	○	○	●	○	33	○	○	●	○	43	○	○	○	○
4	○	●	○	○	14	○	○	●	○	24	○	●	○	○	34	○	●	○	○	44	○	○	○	○
5	○	●	○	○	15	○	●	○	○	25	●	○	○	○	35	○	○	○	○	45	○	○	○	○
6	○	●	○	○	16	○	○	●	○	26	○	●	○	○	36	○	●	○	○	46	○	○	○	○
7	○	○	●	○	17	○	●	○	○	27	○	○	●	○	37	●	○	○	○	47	○	○	○	○
8	●	○	○	○	18	○	●	○	○	28	○	●	○	○	38	○	○	●	○	48	○	○	○	○
9	○	●	○	○	19	○	○	●	○	29	○	○	●	○	39	○	○	●	○	49	○	○	○	○
10	●	○	○	○	20	○	○	○	●	30	●	○	○	○	40	●	○	○	○	50	○	○	○	○

SSES Amravati's Science College, Congress Nagar, Nagpur-12

DEPARTMENT OF COMPUTER SCIENCE

Certificate course (10 weeks)
Certificate Course in Deep Learning

Mark Sheet


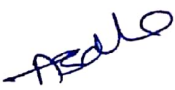
Session 2023-24

Sr. No.	Full Name of Student	Max. Marks: 80 (Theory)	Max Marks: 20 (Practical)	Total Marks 100	Grade obtained
1	Achal Ashok Kale	58	18	76	A
2	Akanksha Rajesh Singh	50	17	67	B
3	Ashish Sudhir Waikar	48	15	63	B
4	Ashwini Sunil Mulak	44	15	59	C
5	Chaitali Arvind Shripatre	50	17	67	B
6	Divyani Suresh Rao Chandore	65	15	80	A
7	Hemlata Sahebrao Sawankar	41	17	58	C
8	Janhvi Ramesh Kumbhalkar	50	17	67	B
9	Kalyani Rajesh Kolarkar	70	18	88	A
10	Kanchan Wasudeo Gondhale	44	18	62	B
11	Leena Siddharth Dupare	50	19	69	B
12	Manisha Mahadeo Ingole	30	14	44	C
13	Preeti Ajay Kumar Rai	54	18	72	B
14	Rashmi Chandrashekhar Ashtankar	44	17	61	B
15	Rasika Ganesh Taralekar	34	16	50	C
16	Ritika Mahesh Motwani	72	20	92	A+
17	Riya Ajay Rai	43	17	60	B
18	Sakshi Prakash Manapure	65	17	82	A
19	Sampada Rajendra Navghare	49	18	67	B
20	Samruddhi Sanjay Telang	45	17	62	B
21	Saumya Prabhakar Dakhole	63	20	83	A
22	Sejal Krishnakant Jakanwar	60	20	80	A
23	Sejal Ranjendra Raut	60	20	80	A
24	Shruti Suresh Dekate	54	19	73	B
25	Shweta Suresh Vaidya	40	17	57	C
26	Simran Ravindrakadbe	44	17	61	B
27	Sparsh Vijay Gajbhiye	45	18	63	B
28	Triveni Vasudev Manigam	60	18	78	A
29	Vidhi Dhiraj Mishra	49	18	67	B
30	Yashashree Sudhakar Bobade	51	19	70	B
31	Prabhjot Vikramjeet Arora	75	20	95	A+
32	Jatin Tekam	43	17	60	B
33	Sejal Hadke	36	16	52	C
34	Bhavika Raut	54	17	71	B
35	praful borkute	53	18	71	B
36	Khushi Sanodiya	62	17	79	A
37	Manisha Lautre	54	17	71	B
38	Ankita Zalke	60	16	76	A
39	Divya Mendhe	57	18	75	A
40	Sana Firdous Shahid Ahmad	39	16	55	C

41	Dhanashree Kulkarni	44	16	60	B
42	Mayuri M. Bisen	55	18	73	B
43	JanviDeshmukh	51	18	69	B
44	SakshiBabanraoPawar	63	20	83	A
45	Lina Sunil Datir	70	20	90	A+
46	Sejal Nitin Waghe	44	18	62	B
47	Shweta RewalalYele	53	18	71	B
48	Harshal Vijay Masram	54	18	72	B
49	Srushti Anil Zade	67	20	87	A
50	BhushanBagde	45	17	62	B
51	Piyush Vinod Agre	59	20	79	A
52	Humera Salim Ahmed Khan	47	17	64	B
53	VaishnaviBhusari	63	20	83	A
54	PunamOmprakashGotmare	46	16	62	B
55	ChinmayBhake	64	20	84	A
56	YashashreeLangde	54	18	72	B
57	VedankitaMohod	56	19	75	A
58	RajsiKingri	60	20	80	A
59	Aachalchurhe	57	20	77	A
60	YewatiKinkar	53	19	72	B

A+ Grade =>Maeks=90 and above, A Grade =>Marks=75 and <90

B Grade =>Marks=60 and <75, C Grade =>Marks=40 and <60, Fail Grade =>Marks<40



 Dr.M.T Wanjari and Mr. A.A.Bodkhe
 Course Coordinator
 Assistant Professor
 Department of Computer Science
 S.J.E.S. Am's Science College,
 Congress Nagar, Nagpur



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**SCIENCE COLLEGE, CONGRESS NAGAR,
NAGPUR**



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CERTIFICATE

Mr./Ku. *Achal Ashok Kale* is awarded with certificate on successful completion of the course entitled, Certificate course in "*Deep Learning*".

Session 2023-24 under Add-on course conducted for 30 hours from 29/12/2023 to 06/04/2024 by Department of Computer Science, SSESAs, Science College, congress Nagar, Nagpur 440012.

He/She has passed the Examination with 'A' Grade.

Dr. M. T. Wanjari

Coordinator, Department of Computer Science

Mr. A. A. Bodkhe

Coordinator, Department of Computer Science

Prof. M. P. Dhore

Principal, Science College, Nagpur



Feedback Analysis

- I) No of students registered and admitted for the workshop: 60
 II) No of students submitted the feedback form: 50
 III) Question wise Analysis of the Feedback:

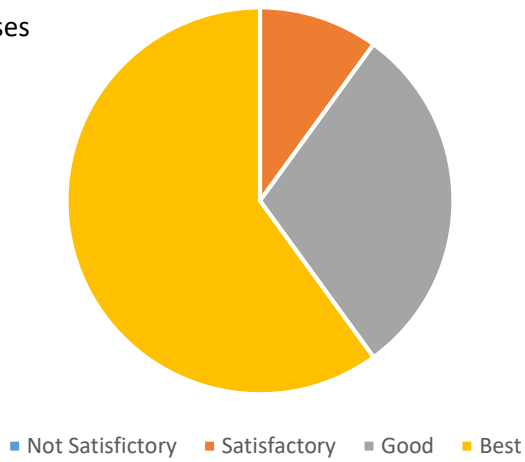
Sr. No.	Question	Response in Percent(%)			
		Best/Excellent	Good	Satisfactory	Not Satisfactory
1.	How do you find the content of the Course?	Best/Excellent	Good	Satisfactory	Not Satisfactory
		60%	30%	10%	0.00%
2.	How would you rate the quality of the content delivered by the teacher?	Excellent	Good	Satisfactory	Not Satisfactory
		40%	50%	5.00%	5.00%
3.	How do you rate the relevance of the topic taught and demonstrated in the course?	Most Relevant	Relevant	Satisfactory	Not Satisfactory
		70%	15%	15%	0.00%
4.	The content of the course were as per the syllabus	Excellent	Good	Satisfactory	Not Satisfactory
		60%	25%	15%	00.00%
5.	How relevant and helpful do you think the course would be in your personal as well as in your professional life?	Very Useful	Useful	Not Useful	--
		80%	15%	5.00%	--
6.	Any Suggestions	No Suggestions:30%,Nothing:25%, Best Course 5.9% , Good 40%, Nice Course 10%, etc.			

Remark: The students commented that course will be useful in their personal and professional life. The department will keep on improving the overall quality of the course.

Feedback Analysis

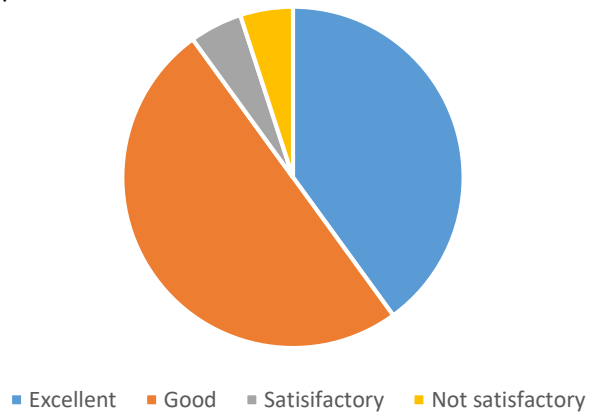
How do you find the content of the Course ?

50 Responses



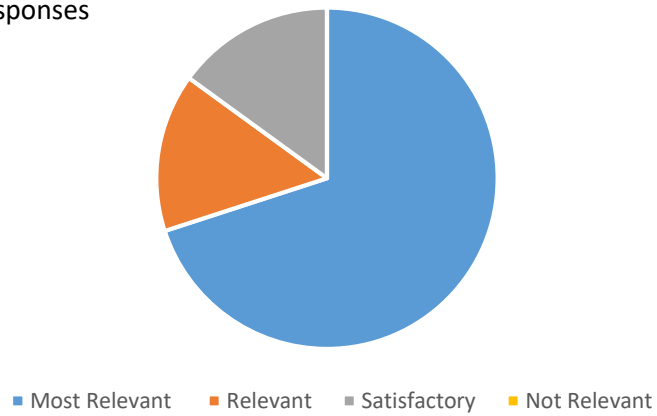
How would you rate the quality of the content delivered by the teacher

50 Responses



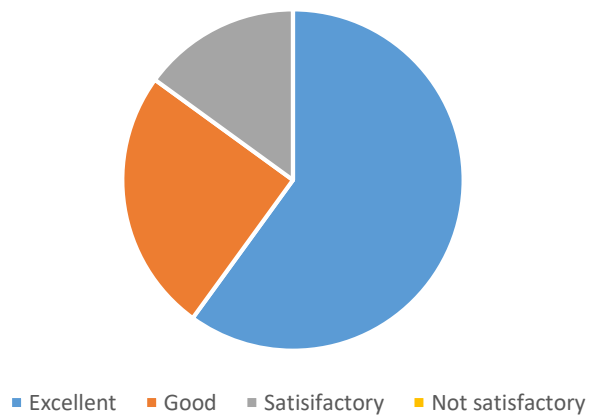
How do you rate the relevance of the topic taught and demonstrated in the course?

50 Responses



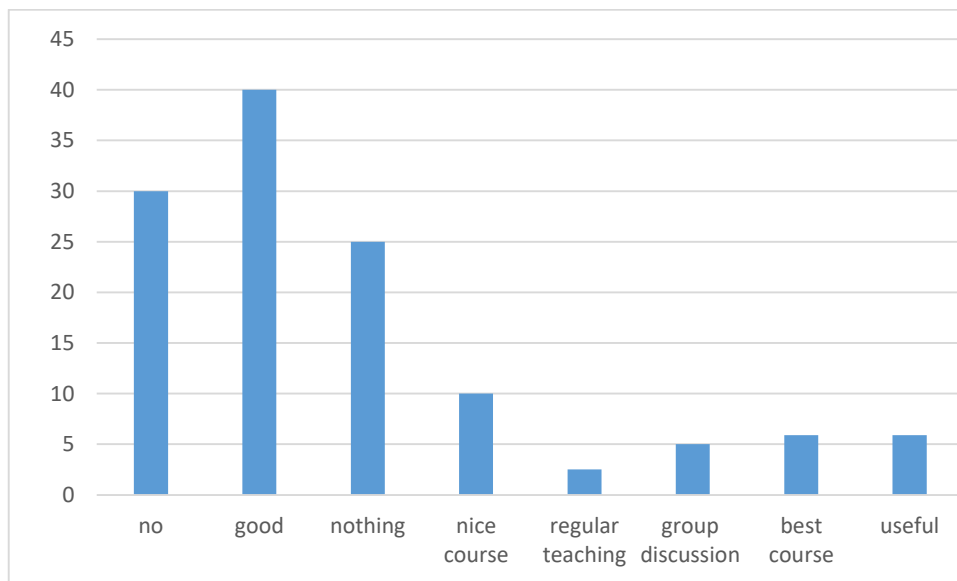
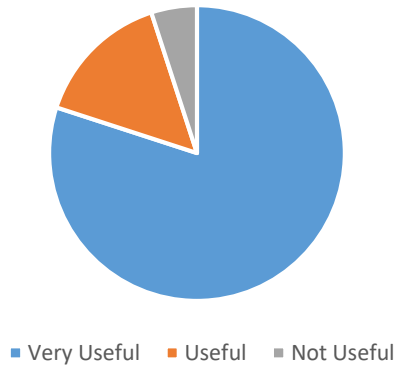
The content of the course were as per the syllabus

50 Responses



How relevant and helpful do you think the course would be in your personal as well as in your professional life?

50 Responses



M. P. Dhore

Dr. M. P. Dhore

Principal
S. S. E. S. Amravati's
Science College, Nagpur.