Course Coordinator Report

Course Name: Certificate Course in Deep Learning

A free Add-On Course for PG studentsin the Department of Computer Science, Shri Shivaji Education Society Amravati's Science College, Congress Nagar, and Nagpurwas held from 01/09/2023 to 23/12/2023. 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
8.8.E.S. Amt's Science College.
Congress Magns, Magner

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

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Yours sincerely

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in and partners

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

Department of Computer Science

NOTICE

Date: 15/08/2023

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 September 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 before31/08/2023.

Contact Information:

For further details, please contact:

Dr. Manish T. Wanjari Mob.8329153206 Mr. Amol A. Bodkhe Mob.9423609630 Course Coordinator

Department of Computer Science 8.6.5. Amt's Science College, Congress Magne, Magnes

Professor & Head
Department of Computer Science
8.8 E.S. Amit's Science Cofface
Congress Nager Negpur

CERTIFICATE COURSE IN DEEP LEARNING (COMPUTER SCIENCE)



Course Objectives:

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



Department of Computer Science SSES Amt's Science College, Congress Nagar, 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
- 4) Able to design and deploy simple TensorFlow-based deep learning solutions to
- 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	
		Тhеогу	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
- 51-,	* Practical examination will be based on performance evaluation in the laboratory	100)

IAAC Coordinator Internal Quality Assurance Cell (IQAC)

S. S. E. S. A. Science College, Congress Nagar, Nagpur.

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 SurfacesLinear Classifiers, Linear Machines with Hinge LossOptimization Techniques, Gradient Descent, Batch OptimizationIntroduction to Neural Network,

Unit-II

Multilayer Perceptron, Back Propagation LearningUnsupervised Learning with Deep Network, AutoencodersConvolutional Neural Network, Building blocks of CNN, Transfer LearningConvolutional Neural Network, Building blocks of CNN, Transfer LearningEffective training in Deep Net- early stopping, Dropout,

Unit-III

Batch Normalization, Instance Normalization, Group NormalizationRecent Trends in Deep Learning Architectures, Residual Network, Skip Connection Network, Fully Connected CNN etcClassical Supervised Tasks with Deep Learning, Image Denoising, Semantic Segmentation, Object Detection etc.LSTM NetworksGenerative 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 SurfacesLinear Classifiers
Week 2	1	Linear Machines with Hinge
		LossOptimization Techniques
	2	Gradient Descent, Batch
		OptimizationIntroduction to Neural
		Network
Week 3	1	
	2	Multilayer Perceptron
	-	Back Propagation LearningUnsupervised
Week 4	1	Learning with Deep Network
	١.	Autoencoders Convolutional Neural
	1	Network
Week 5	2	Building blocks of CNN
WCCK 5	~	Transfer LearningConvolutional Neural
	-	Network
Week 6	1	Building blocks of CNN
vveek 6	2	Transfer Learning Effective training in
		Deep Net- early stopping. Dropout
	1	Batch Normalization, Instance
		Normalization
Week 7	2	Group NormalizationRecent Trends in
		Deep Learning Architectures
	1	Residual Network, Skip Connection
		Network, Fully Connected CNN etc
Week 8	2	Classical Supervised Tasks with Deep
		Learning Learning
	1	Image Denoising Samuel
		Image Denoising, Semanticd
Week 9	2	Segmentation, Object Detection etc.
	~	LSTM NetworksGenerative Modeling
	1	With DL
Week 10	_	Variational Autoencoder
vveek 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	

Department of Computer Science 9.8.E.S. Amt's Science Cottage

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Prolessor & Head Department of Computer Science 8 S.E.S. Amics Science College Congress Nager Naggur

SSESA's, Science College, Congress Nagar, Nagpur Certificate Course in Deep Learning Theory Examination Registration List

Session 2023-24

Sr. No.	Name of Students	Signature
1.	AishwiniArunNaranje	tare
2.	Anjali Pradeep Fender	cery-ex-
3.	Arushi Satish Adkane	Attakane.
4.	Chaitali Arvind Shripatre	Dennipatre
5.	MadhaviShankararoChoudhari	Mchurchi -
6.	MadhuriChandrabhushan Singh	MASIZI
7.	Mrunali Prakash Vaidya	TRIGHT
8.	Nikhil ManojGharat	N.M. Chang
9.	Nikhil Sjanlal Gupta	Transie
10.	Payal Ganesh Shahu	to ship
11.	PayalYashwantSharnagat	A Por
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13.	Pranali Raju Watane	D.R. Walane
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19.	AanchalAshwani Yadav	AA Yadar.
20.	Aditya Bansule	Asancate.
21.	Ankit Singade	Anvits
22.	AnkitaWaghare	Agrangin
23.	AshviniSurkar	Dourker
24.	Bhagyashree S Rane	BS Pane
25.	BhagyashriDiwakarraoMahulkar	6. mahura
26.	Deepti P Kharatkar	D.P. Kharatten
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29.	IqraSabri	Patra
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33.	MadhavKarkare	MKarkar
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35.	PayalPaunikar	P. Paulit
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37.	PranayGatfane	Potane
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44.	Sonal Prashant Ulabhaje	Sonally.
45.	SufiyanKureshi	Suffja
46.	Sumit A Rodge	Suritain
47.	Swati Jamgade	Swallday
48.	TanmayAmbulkar	Ambulen
49.	TejasThakre	Jesastre
50.	Vidhi S Sharma	Chama
51.	Vidhi Soneji	viden
52.	VidhitGanthale	Sidhiluin

Coordinator

Department of Computer Science

Assistant Professor
Department of Computer Science
8.S.E.S. Amt's Science College.
Congress Magai, Ragpur

Head

Department of Computer Science

Professor & Head
Department of Computer Science
8.S.E.S. Arnt's Science Cottege
Congress Nagrir Hegpur

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Shri Shivaji Education Society Amravati's Science College, Nagpur Attendance Sheet

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103	Arushi Satish Adkane	1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<u> </u>	P	P	P	P
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112	Prachi Rameshrao Wasake		P	P	P	P	P	P	P	P	P		P	P	P	•	P	P	P	P	P	P
113	Pranali Raju Watane		P	-	P	P	P	P	P	P	P	P		P	P	P	-			-		-
114	Pratik Vijay Pahade		P	P	P	P	P	P	P		P	P	P	P	P	P	P	P	P	P	1	P
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120	Aditva Bansule		P	p	P	P	P	-	P	P	P	P	P	P	P		P	P		P	P	,
121	Ankit Singade		P	P	P	P	P	P	P		P	P	P	P	P			P	P	P	P	P
122	Ankita Waghare	1	10	0		P	P	P	P		,	P	P	P	P	P	P	P	P		P	P
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124	Bhagyashree S Rane	1	1.	P	P	P	P	P	P	P	P			P	P	P	P	P	P	P	P	P
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Shri Shivaji Education Society Amravati's Science College, Congress Nagar, Nagpur

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31.	131	Ketan Mendhule	P	P	P	P	P	P	P	P		P	P		P	P	P	P	P	P	P	
32.	132	Khushi V Sanodiya	•	P	P	P	P	P	P	P	P		P	P	P	P	0	P	P		P	P
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Coordinator

Department of Computer Science

Department of Computer Science
L.E.S. Amt's Science Confige
Congress Reger, Ragnin

Head of Department Department of Computer Science

Decision & Head
Tepartment of Computer Science
S.S.E.S. April 6 Science College
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Course: Deep Learning Theory/Practical:

Shri Shivaji Education Society Amravati's Science College, Nagpur Attendance Sheet

No. No. Name of Students 1 2 25 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	S.	Roll																					
Name of Students		, Iton		Periods	1	2	3	4	5	6	7	8	9	10	11	112	113	110	65				
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130	Kalash Padwe	
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155	Vidhi S Sharma	666666666
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148	Vidhit Ganthale	PPPPPPPP

Coordinator ment of Computer Science

Assessed Professor
Department of Computer Science
1.8.E.S. Amt's Science Cotlege

Congress Magar, Magari

Head of Department
Department of Computer Science

Professor & Head Jepartment of Computer Screening S.S.E.S. Amir - Screening Continue Congress Hages Haggigs

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: 06/02/2023

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: 29 December 2023, Friday

Time: 01:30 pm to 02:30 pm

Venue: Room No B6

Practical Examination:

Date: 30 December 2023, Saturday

Time: 01:30 pm to 02:30 pm Venue: M. Sc. Lab., Ist 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

Department of Computer Science

9.8.8. Amt's Science Conege

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Pritosor & Head
Department of Computer Science
S.E.S. Amir's Science Coffice
Continues Nagar Hisgaur

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.	AishwiniArunNaranje	PAR
2.	Anjali Pradeep Fender	anjan
3.	Arushi Satish Adkane	A Aller
4.	Chaitali Arvind Shripatre	Cheripatra
5.	MadhaviShankararoChoudhari	Alcharti
6.	MadhuriChandrabhushan Singh	WESTAL
7.	Mrunali Prakash Vaidya	Or idage
8.	Nikhil ManojGharat	N.M. ghant
9.	Nikhil Sjanlal Gupta	ACIPH
10.	Payal Ganesh Shahu	(Snahl
11.	Payal Yashwant Sharnagat	Blowner
12.	PrachiRameshrao Wasake	Dinks.
13.	Pranali Raju Watane	KDR watone
14.	Pratik Vijay Pahade	R Bude
15.	Sakshi Prakash Manapure	Thungar
16.	SaranglshwarDhanorkar	STANCE
17.	Swati DilipIsad	De
18.	TanuSubhashSangole	TSSayl-
19.	AanchalAshwani Yadav	AA Ydohn
20	Aditya Bansule	A Saiside.
21.	Ankit Singade	Prycits
22.	Ankita Waghare	Agrayler
23	AshviniSurkar	Burkas
24.	Bhagyashree S Rane	1 S.S. Rone
25.	BhagyashriDiwakarraoMahulkar	Redricheles
26.	Deepti P Kharatkar	D.P. Khatkon
27.	Devyani A Wasnik	Delininger
28.	DivyaPawar	Drow
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37.	PranayGatfane	Edane.
38.	RitikaWankar	Ruanton
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Coordinator

Department of Computer Science

Assistant Professor Department of Computer Science
8.S.E.S. Amt's Science Cottage.
Congress Images, (Laggest Head

Department of Computer Science

Professor & Heed Department of Computer Selection S.S.E.S. Amr's Science Coffeder Congruent Nager Magaur

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.	AishwiniArunNaranje	Janu
2.	Anjali Pradeep Fender	anjul
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4.	Chaitali Arvind Shripatre	achienth
5.	MadhaviShankararoChoudhari	A Chaurdin
6.	MadhuriChandrabhushan Singh	rasi on
7.	Mrunali Prakash Vaidya	mandya
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9.	Nikhil Sjanlal Gupta	ME Cup 19
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12.	PrachiRameshrao Wasake	Robert
13.	Pranali Raju Watane	P. Q. natane
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19.	AanchalAshwani Yadav	A-A Madan
20	Aditya Bansule	Asombrile
21.	Ankit Singade	AMCHS
22.	AnkitaWaghare	Dryme
23	AshviniSurkar	& white
24.	Bhagyashree S Rane	BSpare
25.	BhagyashriDiwakarraoMahulkar	Routher
26.	Deepti P Kharatkar	D. P Khandle
27.	Devyani A Wasnik	DANGMIC
28.	DivyaPawar	Derwar
29.	IqraSabri	Zabri
30.	KalashPadwe	KPanels
31.	KetanMendhule	Knawle
32.	Khushi V Sanodiya	Khishis
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38.	RitikaWankar	Revarker
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47.	Swati Jamgade	Swalide.
48.	TanmayAmbulkar	Amulaver
49.	TejasThakre	Telasie
50.	Vidhi S Sharma	Charma
51.	Vidhi Soneji	(Wahin
52.	VidhitGanthale	Sidhilan

Coordinator

Department of Computer Science

Department of Computer Science 8.3.E.S. Amt's Science College. Congress Reger, Ragom Head

Department of Computer Science

Professor & Head
Department of Cornouser Science
S.S.E.S. Ami's Science College.
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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

		•	Maxi	mum Marks: 80
Students Name:	Ishwini Az	un Natanj	e	
Roll No: 101		Date: _ 29112	12023	Time: 1 HOUR
Name and Signature	e of Invigilator:	Shalaler S	Saygamlox	Arth
Note: 1. All Question 2. Tick the Correct op 1. What is Deep Learn	ption only.	and carry equal mark	s. 10	
A) A subset of Machine	e learning that involv	es neural networks wit	th many layers.	
B) A data preprocessing	g technique.			
C) A type of database n	nanagement system.			
D) A programming lang	guage.			
2. Which of the follow	ving is a popular fr	amework for Deep Le	earning?	
A) Tensor Flow	B) MySQL			
C) Hadoop	D) Spark			
3. In Bayesian Learn	ning, what does the	posterior probability	represent?	
A) The initial belief abo	out a hypothesis.	B) The prob	pability of the data given t	he hypothesis.
C) The updated belief a	fter observing the d	ata. D) The over	rall probability of the data	L-
4. What is Bayes' theo	rem used for in Ba	yesian Learning?		
A) To calculate the like	lihood of data.	B) To update the pro	bability estimate for a hy	pothesis.
C) To generate random	samples.	D) To determine the	maximum likelihood esti	mate.
5. What is a decision s	urface in machine	learning?		
A) A tool for data prepr	ocessing.	B) A boundary that	separates different classes	š.
C) An algorithm for clu	stering data.A)techi	nique for reducing dim	ensionality.	
6. Which of the followi	ng best describes (he decision surface o	of a linear classifier?	
A) A non-linear curve.	B) A hy	perplane.		
C) A cluster of points.	D) A de	ecision tree.		
7. Which loss function	is commonly used	in linear classifiers?		
A) Mean Squared Error	B) Cros	ss-Entropy Loss		
C) Hinge Loss	D) Log Loss			
8. What does the term	"linear" in linear	classifiers refer to?		
A) The linearity of the d	ecision boundary.	B) The line	earity of the data distribu	ition.
C) The linear complexity	y of the algorithm.	D) The lin	ear relationship between	features.

9. What is the goal of hing	ge loss in SVMs?	
A) To minimize the distance	e between data po	ints and the hyperplane.
B) To maximize the margin	n between classes.	
C) To reduce the number o	f features.	
D) To increase the number		
10. In hinge loss optimiza	tion, what happe	ns 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 b	ut not zero.	D) The loss is constant.
11. What is the primary p	ourpose of optim	ization techniques in machine learning?
A) To find the best hyperpa	arameters.	B) To improve the speed of the algorithm.
C) To minimize the loss fu	nction.	D) To preprocess the data.
12. Which of the followin	g is a common o	ptimization technique used in training neural networks?
A) Gradient Descent		B) k-Nearest Neighbors
C) Principal Component A	nalysis	D) Random Forests
13. What is the main idea	behind Gradier	nt Descent?
A) To ascend the gradient	of the loss function	on.
B) To iteratively update pa	arameters in the d	irection of the steepest increase.
C) To iteratively update pa	arameters in the d	irection of the steepest decrease.
D) To use the gradient to t	ransform features	5.
14. Which of the following	ng is a variant of	Gradient Descent?
A) Newton's Method		B) Backpropagation
C) Stochastic Gradient De	escent (SGD)	D) Support Vector Machines
15. In the context of batc	h optimization,	what is a "batch"?
A) A single data point use	d 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 obj	ective of the bac	kpropagation algorithm?
A) Increase the complexit	y of the model	B) Minimize the cost function
C) Maximize the output o	f the neural netw	ork D) Add more layers to the network
17. In a Multilayer Perce	eptron (MLP), v	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 a	utoencoder?
A) Classification of data		B) Dimensionality reduction
C) Predicting future data	points	D) Clustering data
19. In an autoencoder, w	hat is the role o	of the encoder?

A) To reconstruct the input data	В) То со	mpress the input data into a lower-dimensional representation
C) To classify the input data	D) To in	crease 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) Conve	olutional 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 par	t of a pre-traine	d network is typically reused?
A) The input layer	B) The f	inal output layer
C) The feature extraction layers	D) The o	ptimizer
23. What is the main purpose of ea	rly stopping in	raining neural networks?
A) To decrease training time	B) To pr	event overfitting
C) To reduce the learning rate	D) To in	crease the size of the dataset
24.How does dropout help in regul	arizing a neural	network?
A) By adding noise to the input data	B) By re	moving random neurons during training
C) By increasing the number of neur	ons D) By d	ecreasing the learning rate
25. Which of the following is a con	nmon activation	function used in CNNs?
A) Sigmoid	B) ReLU (Rectifi	ed Linear Unit)
C) Softmax	D) Step function	
26. What type of learning is used in	n autoencoders?	,
A) Supervised learning	3) Unsupervised	learning
C) Reinforcement learning		rvised learning
	-	event overfitting in neural networks?
A) Increasing the number of epochs		g a larger batch size
C) Applying dropout		g a linear activation function
28. What is the primary purpose o		-
A. To reduce the number of layers I	3. To stabilize ar	d accelerate training
C. To increase the model complexity	D. To pe	erform feature scaling
29. How does Instance Normalizati	on differ from	Batch Normalization?
A. It normalizes across the batch dim		B. It normalizes each instance separately
C. It normalizes across groups of inst		D. It does not normalize at all
30. Group Normalization is particu		
particu	mariy useful in	wnich scenario?

B. Large batch sizes

A. Small batch sizes

D. When using non-linear activation functions C. Only for recurrent neural networks 31. What is a key characteristic of Residual Networks (ResNets)? B. Inclusion of skip connections to mitigate vanishing gradients A. Use of deep layers without any connections C. Reliance solely on convolutional layers D. Absence of normalization techniques 32. What is a Skip Connection in neural networks? B. A connection that bypasses one or more layers A. A technique to skip training on certain batches D. A dropout mechanism C. A type of layer that skips input normalization 33. What is the advantage of a Fully Connected Convolutional Network (FCCN)? B. It applies convolutional layers to any input size A. It only uses fully connected layers 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?

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

B. It introduces stochasticity to the encoding process

D. It is designed for supervised learning tasks

A. Convolutional layerB. Pooling layer

C. It does not use a decoder

C. Fully connected layer D. Dropout layer

A. It uses a deterministic approach to encoding

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

Students Name: Ashwini Asun Natanie	Maximum Marks: 20
Roll No: 101 Date: 30 12 2023	_ Time: 1 HOUR
Name and Signature of Invigilator: Acrya, A. Chandekor	Hardeta
Solve Any One	

- 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

- 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

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

	Add-on Course Course Exam Name: Certificate Course in Deep Learning Theory Examination Answer Key								
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Add-on Course Course Exam Name: Certificate Course in Deep Learning							
Theory Examination Answer Key INSTRUCTIONS FOR FILLING THE SHEET							
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Roll No.:	O I Ses	sion: 2023-24 5	. Cutting and erasing on this sh	eet is not allowed.			
Test Date: 29/12/2	Max. Mar	ks: 80 7	. Do not use marker or white flu	id to hide the mark.			
Invigilator Sign	Obtained		WRONG METHODS ⊗ ● ② ♥ ○ ○ ○ ●				
panasanaa		ABCD	ABCD	ABCD			
A B C D 1 ●○○○	A B C D	21 0000	31 0000	41 0000			
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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	Aishwini Arun Naranje	44	18	62	В
2	Anjali Pradeep Fender	53	18	71	В
3	Arushi Satish Adkane	54	18	72	В
4	Chaitali Arvind Shripatre	67	20	87	A
5	Madhavi S Choudhari	45	17	62	В
6	Madhuri C Singh	59	20	79	A
7	Mrunali Prakash Vaidya	47	17	64	В
8	Nikhil Manoj Gharat	63	20	83	Α
9	Nikhil Sjanlal Gupta	46	16	62	В
10	Payal Ganesh Shahu	64	20	84	A
11	Payal Yashwant Sharnagat	54	18	72	В
12	Prachi Rameshrao Wasake	56	19	75	A
13	Pranali Raju Watane	60	20	80	Α
14	Pratik Vijay Pahade	57	20	77	Α
15	Sakshi Prakash Manapure	53	19	72	В
16	Sarang Ishwar Dhanorkar	44	18	62	В
17	Swati Dilip Isad	53	18	71	В
18	Tanu Subhash Sangole	54	18	72	В
19	Aanchal Ashwani Yadav	67	20	87	A
20	Aditya Bansule	54	17	71	В
21	Ankit Singade	60	16	76	A
22	Ankita Waghare	57	18	75	A
23	Ashvini Surkar	39	16	55	С
24	Bhagyashree S Rane	67	20	87	Α
25	Bhagyashri DMahulkar	45	17	62	В
26	Deepti P Kharatkar	59	20	79	A
27	Devyani A Wasnik	47	17	64	В
28	Divya Pawar	63	20	83	A
29	Igra Sabri	46	16	62	В
30	Kalash Padwe	64	20	84	A
31	Ketan Mendhule	54	18	72	В
32	Khushi V Sanodiya	56	19	75	A
33	Madhav Karkare	36	16	52	c
34	Mitali Bonde	43	17	60	В
35	Payal Paunikar	36	16	52	C
36	Praful Khonde	54	17	71	В
37	Pranay Gatfane	53	18	71	В
38	RitikaWankar	62	17	71 79	
39	Rutuja Kalbande	45			A
40	SagarYedaskar		17	62	В
41	SahilAsutkar	75	20	95	A+
-41	SaillASutkar	45	17	62	В

42	Shrish C Kalambe	63	20	83	Α
43	Simran Kaur bedi	60	20	80	Α
44	Sonal Prashant Ulabhaje	60	20	80	Α
45	SufiyanKureshi	54	19	73	В
46	Sumit A Rodge	40	17	57	C
47	Swati Jamgade	44	17	61	В
48	Tanmay Ambulkar	45	18	63	В
49	TejasThakre	60	18	78	Α
50	Vidhi S Sharma	49	18	67	В
51	Vidhi Soneji	51	19	70	В
52	VidhitGanthale	75	20	95	A+

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.P.Wanjari and Mr. A.A.Bodkhe Course Coordinator

Department of Computer Science
8.8.E.S. Amt's Science College
Concress Name Report



Shri Shivaji Education Society Amravati's

SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR





CERTIFICATE

Mr./Ku. Ashwini Arun Naranje 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 01/09/2023 to 23/12/2023 by Department of Computer Science, SSESA's, Science College, congress Nagar, Nagpur 440012.

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

Mr. A. A. Bodkhe

Prof. M. P. Dhore
Principal, Science College, Nagpu

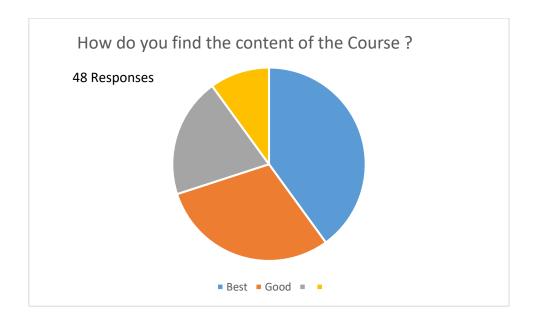
Feedback Analysis

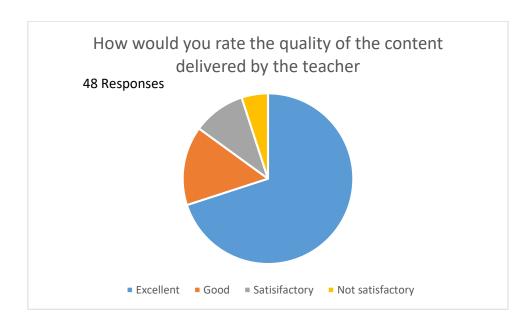
- I) No of students registered and admitted for the workshop: 52
- II) No of students submitted the feedback form: 48
- III) Question wise Analysis of the Feedback:

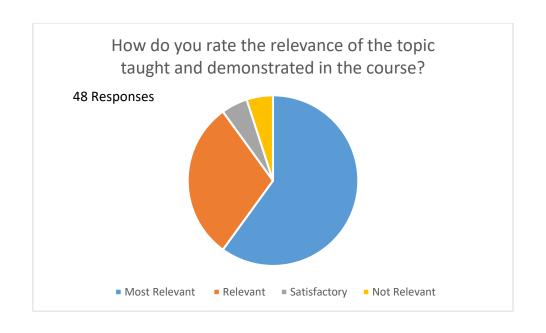
Sr. No.	Question	Response in Percent(%)					
1.	How do you find	Best/Excellent	Good	Satisfactory	Not Satisfactory		
	the content of the Course?	40%	30%	20%	10%		
2.	How would you	Excellent	Good	Satisfactory	Not Satisfactory		
	rate the quality of the content delivered by the teacher?	70%	15%	13%	2%		
3.	How do you rate the relevance of	Most Relevant	Relevant	Satisfactory	Not Satisfactory		
	the topic taught and demonstrated in the course?	60%	30%	5%	5%		
4.	The content of the course were as per	Excellent	Good	Satisfactory	Not Satisfactory		
	the syllabus	70%	15%	10%	5%		
5.	How relevant and helpful do you	Very Useful	Useful	Not Useful			
	think the course would be in your personal as well as in your professional life?	75%	20%	5%			
6.	Any Suggestions	No Suggestions:30%,Nothing:25%, Best Course 5.9%, Good 35%, Nice Course 10%, etc.					

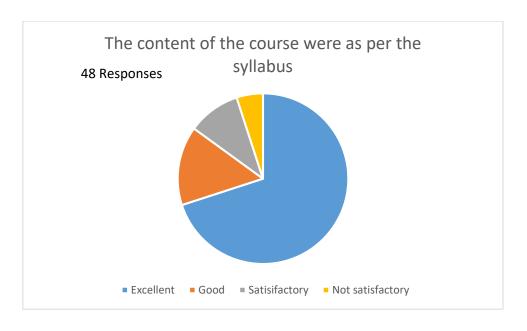
Remark: The students commented that course will be useful in their personal and professional life. The department will keep on improving the overall quality of the course.

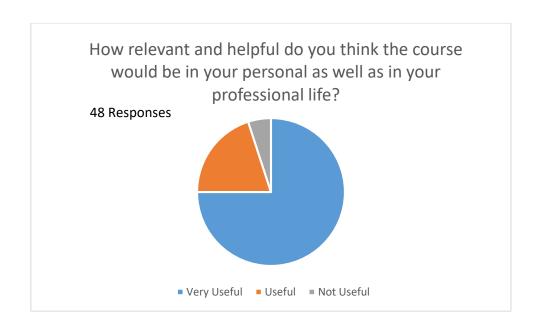
Feedback Analysis

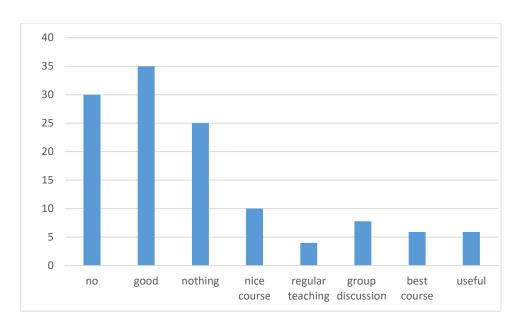














Dr. M. P. Dhore

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