B.S. Abdur Rahman ™

Crescent
Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956

School of Computer, Information and Mathematical Sciences

Department of Computer Science and Engineering

Workshop on Deep Learning & Neural Networks
on 8th October 2024

Venue: Cyber Security Lab

Time: 11:00 a.m. to 4:00 p.m.

School of Computer, Information and Mathematical Sciences

Workshop Report

Name of the Workshop: Deep learning & Neural Networks

Date : 8th October, 2024

Venue: Cyber Security Lab

Total number of participants who attended the workshop: 38

Department of Computer Science and Engineering, B S Abdur Rahman Crescent Institute of Science and Technology had organized a workshop – "Deep Learning & Neural Networks on the 8th October 2024. 38 students from II- & III-year CSE participated actively in the workshop. The session was conducted by Aadel Mohamed Rabeek, Chief R&D Officer, NTC and was organized by final year students and third year students of the Neural Techgenix Club. This workshop was coordinated by Dr. L. Arun Raj Assoc. Prof/CSE, Dr. B. Dhanalakshmi, Assoc. Prof/CSE, Dr. X. Arputha Rathina, Assoc. Prof/CSE, Mrs. K. Sowmiya, Assistant Professor, Mrs. Nithya B, Assistant Professor, Mrs. Joy Kiruba P, Assistant Professor.

Objectives:

- To understand the concept of machine learning and deep learning.
- To explain the structure and functioning of artificial neural networks.
- To offer hands-on experience with a deep learning project – "Digits recognition".
- To guide participants in handling real-world data.
- To introduce the process of deploying deep learning models.

Activities during the workshop:

- The workshop comprised of 2 sessions. In the first session, the speaker provided a clear introduction to machine learning, covering its types.
- He further elaborated deep learning as a subset of machine learning that uses neural networks to model complex patterns in data.
- The structure of neural networks, including layers (input, hidden, output), and key components like activation functions, weights, and biases, was discussed.
- The speaker also detailed how neural networks work through forward propagation and backpropagation, emphasizing the training process to minimize errors and improve performance.
- During the afternoon session, the participants got their hands dirty with deep learning modules in Python, gaining practical experience in implementing and fine-tuning neural networks.
- Finally, the session was concluded with the presentation of "Hand digit recognition", allowing participants to explore various project ideas related to the deep learning domain.

Outcomes:

- Participants were able to gain knowledge about Machine Learning, Deep Learning and Neural Networks.
- Participants were able explore modules in python such as TensorFlow, keras, matplotlib and opencv.
- This collaborative environment fostered knowledge sharing and allowed participants to receive constructive feedback, further enhancing their learning and research experience.

This report discusses about the following aspects:

1. Event brochure
2. Participants list
3. Student Feedback
4. Sample certificate
5. Event gallery

EVENT BROCHURE

PARTICIPANTS LIST

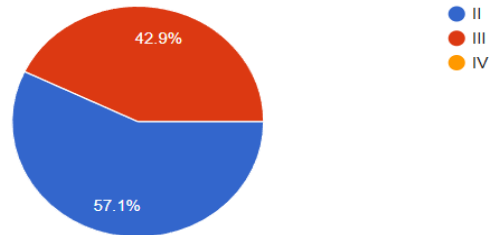| S.No	Name	RRN	Department	Year
1	SARA SAKEENA	230071601205	CSE D	II
2	SAMEER HUSSAIN S	230171601162	AI DS C	II
3	J.ABU HORAIRA	230171601012	AI DS A	II
4	AADITYARAM S	230171601001	AI DS A	II
5	AHMED SHEIK SULAIMAN	230171601018	AI DS A	II
6	SYED FAAZ S H	230171601184	AI DS C	II
7	SANTHIYA SHREE VS	230171601163	AI DS C	II
8	S.HARSHAVARTHANAN	230171601052	AI DS A	II
9	SP.IBRAHIM MOHIDEEN	230271601056	AI DS A	II
10	MUHAMMED AL HAMEED M	230171601145	AI DS C	II
11	G.UMER BASITH	230171601192	AI DS C	II
12	J.MOHAMMED SOHAIL	230171601141	AI DS C	II
13	A MUIZZUR RAHMAN	230171601148	AI DS C	II
14	I STEPHEN RAJ	230171601178	AI DS C	II
15	NAVEED AHAMED S	230171601152	AI DS C	II
16	AATHIF NASEER	220171601001	AI DS A	III
17	A.VESHAL	220071601269	CSE D	III
18	SELVAKUMARAN G	230171601166	AI DS C	II
19	STEFINA E	230171601177	AI DS C	II
20	SREEMEN KUMAR S	220071601249	CSE D	III
21	S.MUSTHABA	230171601150	AI DS C	II
22	ZARAH	230171601003	AI DS C	II
23	VIGNESH.A	230171601195	AI DS C	II
24	SIMRA RAZEEN.I	220071601247	CSE D	III
25	S. NIZAMUTHEEN	230171601153	AI DS C	II
26	J.JAWED AHAMED	230171601060	AI DS A	II
27	M. SRI SIDDHARTH	220071601250	CSE D	III
28	YAASHAR.A	230171601198	AI DS C	II
29	SYED THUFEL SYED WAHID	230171601189	AI DS C	II
30	M.VISHWANATHAN	230171601196	AI DS C	II
31	GOKUL V	230171601048	AI DS A	II
32	AZMAAN MOHAMMED PASHA	230171601029	AI DS A	II
33	THANANJAI.S	230071601246	CSE D	II
34	SYED SUHAIL	220071601263	CSE D	III
35	M SIDDHAARTH	220071601244	CSE D	III
36	THARAGARAMAN BALAJI	220071601264	CSE D	III
37	NOORUL MAROOFA	230171601264	AI DS C	II
38	MOHAMED KALITH	230171601101	AI DS B	II

Overall, the participants were immensely satisfied with the proceedings of the deep learning and neural networks workshop and everyone was excited to be a part of the upcoming events.
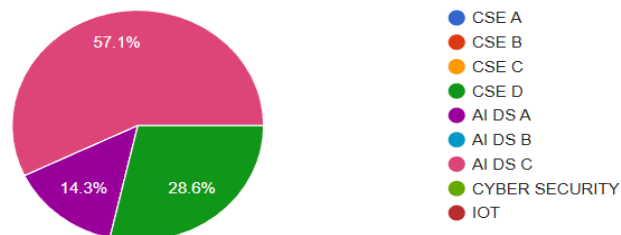
STUDENT   FEEDBACK

Year
7 responses

Copy chart

- II
- III
- IV

57.1%
42.9%

Dept & Branch
7 responses

Copy chart

- CSE A
- CSE B
- CSE C
- CSE D
- AI DS A
- AI DS B
- AI DS C
- CYBER SECURITY
- IOT

57.1%
14.3%
28.6%

Feedback regarding the session
7 responses

Good

Good nice explanation

It was a very good session.. we were able to gain knowledge about new things... Since the time wasn't sufficient we couldn't dive deep into the concept... Looking forward to more sessions

The event was well organised and Aadel was able to convey the necessary information in a professional manner.

Air conditioning issue could be fixed in the next session.

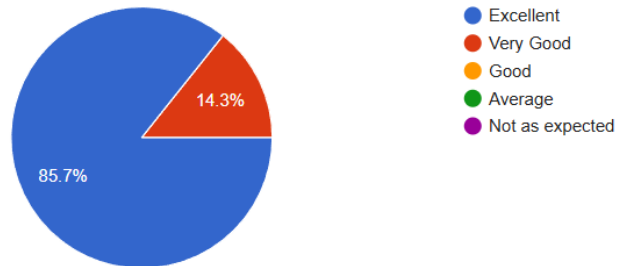The event was really good, it was well organised and the speaker taught the topics really well

It was a good session overall

Really good well explained session with a interesting project
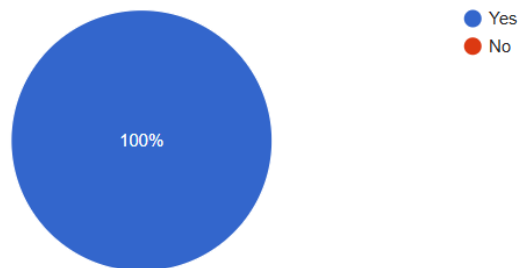
Rate the workshop session

7 responses

- Excellent
- Very Good
- Good
- Average
- Not as expected

14.3%

85.7%

Would you like to attend future events organized by our club

7 responses

- Yes
- No

100%

Do you have any additional comments or suggestions for conducting future events

7 responses

Nope

No

I would love to attend this workshop for a full day starting from 9 in the morning to 3 in the afternoon

NIL

Nil

Nothing else

No comments

SAMPLE CERTIFICATE

Association for Computing Machinery

NEURAL TECH·IGENIX CLUB

B.S. Abdur Rahman ™
Crescent
Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956

CERTIFICATE OF PARTICIPATION

IS PROUDLY PRESENTED TO

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appreciating his/her efforts in attending the Hand-on workshop titled
"**Deep Learning and Neural Networks**" organized by **Neural Techgenix Club** on **08th of October 2024.**

| Coordinator | HOD / CSE | Dean / SCIMS |

EVENT GALLERY

Faculty Coordinators
Dr. X. Arputha Rathina, Assoc. Prof./CSE
Dr. L. Arun Raj, Assoc. Prof./CSE
Dr. B. Dhanalakshmi, Assoc. Prof./CSE
Mrs. Sowmiya, AP/CSE
Mrs. Joy Kiruba P, AP/CSE
Mrs. Nithya B, AP/CSE

Head of the Department
Dr. W. Aisha Banu