

REPORT

PRAGATI ENGINEERING COLLEGE

(Approved by AICTE, Permanently Affiliated to JNTUK, KAKINADA & Accredited by NBA)

1-378, A.D.B. Road, Surampalem, Near Peddapuram-533437



“NEURAL NETWORK ARCHITECTURES THE BACKBONE OF MODERN AI”

Date: 2-04-2025.

Day: Wednesday.

Turing Club organised by the Dept. of CSE – AI&ML of Pragati Engineering College in association with Career Guidance Cell is organizing a Neural Network Architectures The Backbone Of Modern AI as part of Industry 4.0.

REGISTRATION MADE BY STUDENTS:

S.NO	ROLL NO	NAME
1	23A31A4201	BALUSU NAGA JAHNAVI
2	23A31A4202	CHADALAWADA LAKSHMI SUBRAHMANYA MOUNIKA
3	23A31A4203	DARSI SAHITHYA
4	23A31A4204	DEVARAPALLI HEMA SURYA SAHITYA
5	23A31A4205	GUTTULA AMRUTHA NOOKAMBIKA
6	23A31A4206	ILLA LAKSHMI SIRI SIVA SAI CHANDANA
7	23A31A4207	KAMIDI LALITHA KUMARI
8	23A31A4208	KEDASI ROSHINI
9	23A31A4209	KOLA SRI VANAJA GEETHA
10	23A31A4210	KOPPANA MONIKA SREE BALA
11	23A31A4211	KOPPISETTI SRIJA
12	23A31A4212	KORIBILLI BHAVYA SRI
13	23A31A4213	KOTHAPALLI SAI ROHINI
14	23A31A4214	KOTTAPALLI PUJA
15	23A31A4215	MADDUKURI SRILAYA
16	23A31A4216	MANDAPATI HARSHITHA
17	23A31A4217	MUMMIDI LAKSHMI SAI PAVANA ABHILASYA
18	23A31A4226	VADDI SAHITYA
19	23A31A4227	VANAPARTHI NAVYA SRI V VB KEERTHI VARDHINI
20	23A31A4228	VANUM POOJA SRI
21	23A31A4229	VEDULLA DIVYA
22	23A31A4230	VUNDI KAVYA
23	23A31A4231	YELIDINDI RAMA TULASI
24	23A31A4232	AGUTUMUDI HEMANTH
25	23A31A4233	BARRE NAGENDRA BABU
26	23A31A4234	BOMMANA MOHANA SURYA AJAY
27	23A31A4235	BUDIDHA SATHWIK ABHIRAM
28	23A31A4236	CHINNI BALAJI
29	23A31A4237	DASAM NEHRU
30	23A31A4238	DASARI GOUTAM
31	23A31A4248	MALIPEDDI TARUN
32	23A31A4249	MARNI SHYAM SUNDAR
33	23A31A4250	MENDI SADU
34	23A31A4255	PADMANADHUNI VEERA VENKATA SAI AKASH
35	23A31A4256	PANTHADI SWAROOP KUMAR
36	23A31A4257	PATTAPU PETER PAUL
37	23A31A4258	RAKETLA PREMASAI
38	23A31A4259	SALAGRAMA SURYA PAVAN

39	23A31A4260	SANNIGANTI AMIT PAUL
40	23A31A4261	SRIGHAKOLLAPU R N V H S SRI KRISHNA
41	23A31A4262	TATAPUDI NISHOK CHANDRA
42	23A31A4263	TURANGI GUNAVARDHAN DEVI PRASAD
43	23A31A4264	YARRA MANIKANTA
44	23A31A42J6	SADHANALA SWAROOPARANI
45	23A31A42J7	MUNNANGI KUSUMA SRI
46	24A35A4201	KOTIKALAPUDI SAILAJA
47	24A35A4202	MOHAMMED AFSHA BANU
48	24A35A4203	ALURI THARUN CHOWDARY
49	23A31A4265	ADDENKI SATYA SANTOSHI MAHALAKSHMI
50	23A31A4266	ALLAMPALLI SHARON ROSE
51	23A31A4270	CHAKKA VASAVI
52	23A31A4271	CHIKKALA KUSUMA CHANDU
53	23A31A4272	CHINTALA RAMANESWARI
54	23A31A4273	GANDHAM KAVYANJALI
55	23A31A4274	GEDDADA LAVANYA
56	23A31A4275	JAGADAM CHARISHMA
57	23A31A4276	KAKARLAPUDI ANIKSHA
58	23A31A4277	KALAGA CHANDINI NAGA LEELA
59	23A31A4278	KONA DEVI
60	23A31A4288	PATCHAMATLA VEERA VENKATA LAKSHMI NAGA SUPRIYA
61	23A31A4289	SABBELLA KAVYA SUVARNIKA
62	23A31A4290	SHAIK AHMADUNNISA
63	23A31A4295	THELLAMEKALA RENUKA DEVI
64	23A31A4296	THOTA SANTHI
65	23A31A4297	TUMMALAPALLI BHAVYA
66	23A31A4298	ALLEN BRIGHTON BASCOM
67	23A31A4299	AVASARALA SHANMUKH VENKATA SAI RAM
68	23A31A42A0	BAGADI RAJESH
69	23A31A42A1	CHODAPANEEDI VENKATA SAI RAM
70	23A31A42A2	DASARI AJAY KUMAR
71	23A31A42A3	DEGALA NARAYAN KARTHEEK
72	23A31A42A4	DEVAGUPTHAPU VEERA VIVEK SAI HARSHA
73	23A31A42A5	GOGADA MUKESH
74	23A31A42A6	HUDSON IMMANUEL TADI
75	23A31A42A7	JOSHIK VARDHAN MUNGANDA
76	23A31A42D6	CHAKRAVARTHULA SRI SAI VARSHA
77	23A31A42D7	CHODISETTI YOGITHA RAMYA SRI
78	23A31A42D8	DASARI TEJASWINI
79	23A31A42D9	DUDALA SRIYA

80	23A31A42E0	GANTA NAGA ANUSHA
81	23A31A42E1	KADALI SRUJANA
82	23A31A42E2	KATTA ANJANI SURYA PRABHA
83	23A31A42E3	KOLLI NAVYA JYOTHI
84	23A31A42E4	KONDEPUDI MANASA
85	23A31A42E5	KORUKONDA LAKSHMI PAVITHRA
86	23A31A42E6	KOVVURI HARSHA MADHURI REDDY
87	23A31A42E7	MANIVISETTI LAKSHMI SRI
88	23A31A42E8	MONDI KOUSALYA
89	23A31A42E9	NALLAMILLI DHANYA RADHIKA
90	23A31A42F0	PIDITHI BHAVYA PREM AGNES
91	23A31A42F1	POTNURI LIKHITHA SATYA VINEELA
92	23A31A42F2	PYDIKONDALA LEELA MAHALAKSHMI
93	23A31A42G2	ANAPARTHI BHASKARA VENKATA DURGA BHIMESH
94	23A31A42G3	ARIMILLI VENKATA TARUN
95	23A31A42G8	DUNNE ADITYA
96	23A31A42G9	GABU DURGA ESWAR ASHOK
97	23A31A42H0	GEDE HEMANTH RISHI NAIDU
98	23A31A42H1	GONGADA LOHITH MANIKANTA
99	23A31A42H2	GUMMIDI DURGA MALLESWAR
100	23A31A42H3	KADALI STEPHEN BABU
101	23A31A42H4	KATTA CHARAN KUMAR
102	23A31A42H5	KINTHADA MOHANSAI
103	23A31A42H6	KOLAVENNU HARA TARA SAI KIRAN
104	23A31A42H7	KONDI RAJESH
105	23A31A42H8	LAKKU BENNYHIN
106	23A31A42H9	MALLINA SRIRAM SAI ESWAR
107	23A31A42I0	MALLIPUDI VINAY BABU
108	23A31A42I1	MURUMALLA SURYA NIKHIL BULLIRAJU
109	23A31A42I2	NADIMPILLI V POORNA CHANDRA VARMA RAJU
110	23A31A42I3	NAGUBATHULA JAYA AASHIK
111	23A31A42I4	PENTAKOTA SRIRAM
112	23A31A42I9	TADIMALLA S V P K SRI SATHVIK
113	23A31A42J0	TEKU SYAM KUMAR
114	23A31A42J1	UDAY KUMAR LALAN DIWAKAR
115	23A31A42J2	VADAPALLI ADITYA VARDHAN
116	23A31A42J3	VANGALAPUDI SATISH PREETHAM
117	23A31A42J4	VENTU VENKATA MURALI KRISHNA
118	23A31A42J5	YADLAPALLI LALITHADITYA



ATTENDED STUDENT LIST

PRAGATI ENGINEERING COLLEGE

(Autonomous)

B.Tech

**Computer Science and Engineering
(Artificial Intelligence & Machine Learning)**

EVENT NAME: Neural Network Architectures: The Backbone of Modern AI

DATE: 21/4/2025

SPEAKER NAMES: Dr. S. Surekha

The list of students attended for this event.

S.No	Roll No.	Name of the Student	Year	Signature
1	23A31A4225	P. Suresh naidu	II	P. Suresh
2	23A31A4226	P. Jothesh	II	P. Jothesh
3	23A31A4227	M. Surya Nikhil	II	M. Surya
4	23A31A4228	K.H.T. SAI KIRAN	II	S.K.T.
5	23A31A4229	K. RAJESH	II	K. Rajesh
6	24A35A4215	M. Sandeep	II	M. Sandeep
7	23A31A4233	A.V. Tarun	II	A.V. Tarun
8	23A31A4210	M. Vinay Babu	II	M. Vinay Babu
9	23A31A4268	D. Aditya	II	D. Aditya
10	23A31A42F1	R. Likhitha	II	R. Likhitha
11	23A31A42D2	A. Deepthi	II	A. Deepthi
12	23A31A42D3	B. Sravani	II	B. Sravani
13	23A31A42D6	Ch. Varsha	II	Ch. Varsha
14	23A31A42F6	Renuka	II	Renuka
15	23A31A4225	B. Mathrusri	II	B. Mathrusri

T. Divyachandana
Student coordinator

A. Roshni Krishna
HoD-CSE(AI&ML)

A. Suresh / P. Saravathi
Faculty Coordinator



PRAGATI ENGINEERING COLLEGE
(Autonomous)

B.Tech
Computer Science and Engineering
(Artificial Intelligence & Machine Learning)

EVENT NAME: Neural Network Architectures : The Backbone of modern AI

DATE: 2/4/2025

SPEAKER NAMES: Dr. S. Suresh

The list of students attended for this event.

S.No	Roll No.	Name of the Student	Year	Signature
1	24A35A4210	K. Mani Kantasiram	2 nd	K. M. Sai Ram
2	24A35A4211	K. Satyanarayana	2 nd	K. Satyanarayana
3	24A35A4209	B. Durgaprasad	2 nd	B. Durgaprasad
4	23A31A4298	Allen Brighton Barcom	2 nd	Allen Brighton
5	23A31A42B3	K. Prudhvi Krishna	2 nd	K. P. V. Krishna
6	23A31A42B1	K. Deepak	2 nd	K. Deepak
7	23A31A42B5	K. V. V. Satya Sai	2 nd	K. Satya Sai
8	23A31A42C5	S. Pradheep Wilson	2 nd	S. Pradheep
9	23A31A42B8	M. T. Vamsidhar	2 nd	M. T. Vamsidhar
10	23A31A42D0	V. Siddhartha	2 nd	V. Siddhartha
11	23A31A42C1	H. Prasanth	2 nd	H. Prasad
12	23A31A42B9	M. Praveen	2 nd	M. Praveen
13	23A31A42C0	M. Naveen	2 nd	M. Naveen
14	23A31A42C9	V. B. S. Vinay	2 nd	V. B. S. Vinay
15	23A31A42A7	H. Joshi K	2 nd	H. Joshi K

T. Divyachandana
Student coordinator

A. Radha Krishna
HoD-CSE(AI&ML)

A. Soumya / P. Satyanath
Faculty Coordinator



PRAGATI ENGINEERING COLLEGE

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B.Tech

Computer Science and Engineering
(Artificial Intelligence & Machine Learning)

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S.No	Roll No.	Name of the Student	Year	Signature
16	23A31A42A3	D. N. Karthikey	2 nd	D.N. Karthikey
17	23A31A42A1	Ch. V. Sairam	2 nd	Ch. V. Sairam
18	23A31A42C2	D. Pradeep Kumar	2 nd	D. Pradeep
19	23A31A42C7	S.V. Mani Ravan	2 nd	S. Mani Ravan
20	23A31A42AD	B. Rajesh	2 nd	B. Rajesh
21	23A31A42A5	G. Mukesh	2 nd	G. Mukesh
22	23A31A42B0	K. Siva Rushi nath	2 nd	K. Siva
23	23A31A42C4	P. Sriromulu	2 nd	P. Sriromulu
24	23A31A42A2	K. Mahesh Babu	2 nd	K. Mahesh
25	23A31A42D0	V. Siddhartha	2 nd	V. Siddhartha
26	24A35A4212	G. S. Teja Santosh	2 nd	G. S. Teja Santosh
27	24A31A42A2	D. Arjun	2 nd	D. Arjun
28	23A31A4299	A. Shanmukh	2 nd	A. Shanmukh
29	23A31A42B6	B. Varun Sandesh	2 nd	B. V. Varun
30	23A31A42B7	M. Bhane Praveen	2 nd	M. Bhane Praveen

T. Divya chandana
Student coordinator

A. Soujanya / P. Satyawathi
Faculty Coordinator

A. Radha Krishna
HoD-CSE(AI&ML)



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S.No	Roll No.	Name of the Student	Year	Signature
1	23A31A4296	T. Santhi	II nd	T. Santhi
2	23A31A4274	Gi. Lavanya	II nd	Gi. Lavanya.
3	23A31A4273	Gi. Kavyanjali	II nd	Gi. Kavyanjali
4	23A31A4279	K. Suganya	II nd	K. Suganya
5	24A35A4207	D. Sri Karanadurga	II nd	D. Durga
6	23A31A4284	MD. Asma	II nd	MD Asma
7	23A31A4285	N.N. Sri Lakshmi	II nd	Sri Lakshmi
8	23A31A4290	Sk. Ahmadunnisa	II nd	Sk. Ahmadunnisa
9	23A31A4286	P. Sree Chandana	II nd	P. Sree Chandana
10	24A35A4208	N. Sai Lalitha	II nd	N. Sai Lalitha
11	23A31A4266	A. Shreenrose	II nd	A. Shreenrose
12	23A31A4287	P. Tejithika sri	II nd	P. Tejithika
13	23A31A4275	J. Charushma	II nd	J. Charushma
14	23A31A4271	Ch. Kusumachandu	II nd	Ch. Kusumachandu
15	23A31A4267	A. Chaitanya Surya	II nd	A. Chaitanya Surya

T. Divya Chandana
Student coordinator

A. Radha Krishna
HoD-CSE(AI&ML)

A. Souf / P. Satyawathi
Faculty Coordinator



PRAGATI ENGINEERING COLLEGE

(Autonomous)

B.Tech

Computer Science and Engineering
(Artificial Intelligence & Machine Learning)

The list of students attended for this event.

S.No	Roll No.	Name of the Student	Year	Signature
16	23A31A4289	S.Kavya Suvarnika	II nd	S.Kavya
17	23A31A4278	K. Devi	II nd	K. Devi
18	23A31A4294	T.Kavya	II nd	T.Kavya
19	23A31A4291	S. Revathi	II nd	S. Revathi
20	23A31A4276	K. Aniksha	II nd	K. Aniksha
21	23A31A4292	T. Shainy	II nd	T. Shainy
22	23A31A4282	M. Bhavana	II nd	M. Bhavana
23	23A31A4293	T. Leela	II nd	T. Leela
24	23A31A4272	Ch. Rameswari	II nd	Ch. Rameswari
25	23A31A4269	B. Ankita Prizadarshini	II nd	B. Ankita
26	23A31A4283	M.L. Apoorva	II nd	M.L. Apoorva
27	23A31A4295	T. Renukadevi	II nd	T. Renukadevi
28	23A31A4268	B. Anurithika	II nd	B. Anurithika
29	23A31A4288	P. Supriya	II nd	P. Supriya
30	23A31A4277	K. Chandini	II nd	K. Chandini

T. Divya Chandana
Student coordinator

A. Sathya / P. Sathya
Faculty Coordinator

A. Radha Krishna
HoD-CSE(AI&ML)



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Computer Science and Engineering
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The list of students attended for this event.

S.No.	Roll No.	Name of the Student	Year	Signature
16	23A31A4228	V. pooja.sri	II	V. Deepasri
17	24A35A4203	A. Tharun Chaudhary	II	A. Tharun
18	23A31A4232	A. Hemanth	II	A. Hemanth
19	23A31A4244	K. Chasanteja	II	K. Chasanteja
20	23A31A42D8	D. Tejaswini	II	D. Tejaswini
21	23A31A42D7	Ch. Ranya Sri	II	Ch. Ranya Sri
22	23A31A42D9	D. Sriya	II	D. Sriya
23	23A31A42E5	K. Parithara	II	K. Parithara
24	23A31A42E2	K. Anjani Surya prabha	II	K. Anjani
25	23A31A42E9	N. Dhanya	II	Dhanya
26	23A31A42F7	T. Kravithi	II	Kravithi
27	23A31A42E8	M. Kowalya	II	M. Kowalya
28	23A31A42F8	V. Koumudhi	II	V. Koumudhi
29	23A31A42E3	K. Navya Tyothi	II	K. Navya
30	23A31A42D4	B. Deepika	II	B. Deepika

T. Divya Chandana
Student coordinator

A. Sanyal / P. Satyavathi
Faculty Coordinator

A. Radha Krishna
HoD-CSE(AI&ML)



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B.Tech

Computer Science and Engineering
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EVENT NAME: Neural Network Architecture: The Backbone of modern AI

DATE: 21/4/2025

SPEAKER NAMES: Dr. S. Surekha

The list of students attended for this event.

S.No	Roll No.	Name of the Student	Year	Signature
1	23A31A42G9	G. D. Eswar Reddy	II nd	G. D. E. Reddy
2	23A31A42I2	N. V. Poornachandran	II nd	N. Varma
3	23A31A42G4	B. Chandrasekhar Swamy	II nd	B. C. S. Swamy
4	23A31A42G7	D. V. A. A. Jay. Kumar	II nd	D. V. A. A. Jay.
5	23A31A42I8	S. Charan	II nd	S. Charan
6	23A31A42F2	P. Leela Mahalakshmi	II nd	P. Leela
7	23A31A42F0	P. Bhavya Hem Agnes	II nd	P. Bhavya
8	23A31A42F9	V. Charishma	II nd	V. Charishma
9	23A31A42F5	R. Samyuktha Shan	II nd	R. Samyuktha
10	23A31A42F5	M. Sindhu	II nd	M. Sindhu
11	23A31A42E1	K. Sravya	II nd	K. Sravya
12	23A31A42E6	K. Harsha Madhuri	II nd	K. Madhuri Reddy
13	23A31A42G2	A. BHIMESH	II nd	A. B. V. D. Bhimesh
14	23A31A42J1	U. Divakar	II	U. Divakar
15	23A31A42J0	T. Syam Kumar	II	T. Syam Kumar

T. Divya Chandana
Student coordinator

A. Radha Krishna
HoD-CSE(AI&ML)

A. Sujin / P. Sathyavathi
Faculty Coordinator



PRAGATI ENGINEERING COLLEGE

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B.Tech

Computer Science and Engineering
(Artificial Intelligence & Machine Learning)

The list of students attended for this event.

S.No	Roll No.	Name of the Student	Year	Signature
16.	23A31A4217	M. Abhilasha	II	M. Abhilasha
17.	23A31A4219	P. Tejasri	II	P. Tejasri
18.	23A31A4230	V. Kavya	II	V. Kavya
19.	23A31A42J7	M. Kusuma Sri	II	M. Kusuma Sri
20.	23A31A4208	K. Roshini	II	K. Roshini
21.	23A31A4202	Ch. L. S. Maunika	II	Ch. L. S. Maunika
22.	23A31A4213	K. Sai Rohini	II	K. Sai Rohini
23.	23A31A42J6	S. Swaroopa Rani	II	S. Swaroopa Rani
24.	23A31A4220	P. Purushothika	II	P. Purushothika
25.	23A31A4212	K. Bhavya Sri	II	K. Bhavya Sri
26.	23A31A4205	G. A. Nookambika	II	G. A. Nookambika
27.	23A31A4225	T. Pranrakumari	II	T. Pranrakumari
28.	23A31A4204	D. H. S. Sahetya	II	D. H. S. Sahetya
29.	23A31A4211	K. Srija	II	K. Srija
30.	23A31A4207	K. Lalitha Kumari	II	K. Lalitha Kumari

T. Divya Chandana
Student coordinator

A. Sathya / P. Sathya
Faculty Coordinator

A. Rodha Krishna
HoD-CSE(AI&ML)



PRAGATI ENGINEERING COLLEGE

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B.Tech

Computer Science and Engineering
(Artificial Intelligence & Machine Learning)

EVENT NAME: Neural Network Architectures: the Backbone of

DATE: 2/4/2025

MODERN AI

SPEAKER NAMES: Dr. S. Surekha

The list of students attended for this event.

S.No	Roll No.	Name of the Student	Year	Signature
1	23A31A4209	K.Sri Varaja Geetha	II	K.Sri Varaja
2	23A31A4229	V. DIVYA	II	V. Divya
3	23A31A4223	P. Teja Sri	II	P. Tejasri
4	23A31A4215	M. Srilaya	II	M. Srilaya
5	23A31A4226	V. Sahitya	II	V. Sahitya
6	23A31A4227	V. Navya Sri	II	V. Navya Sri
7	23A31A4214	K. Pooja	II	K. Pooja
8	23A31A4222	P. Tyoshna Rani	II	P. Tyoshna Rani
9	24A35A4202	Ms. Aisha Banu	II	Ms. Aisha Banu
10	24A35A4201	K. Sailaja	II	K. Sailaja
11	23A31A4218	P. Chandra Bravanthi	II	P. Chandra Bravanthi
12	23A31A4201	B. Naga Jahnvi	II	B. N. Jahnvi
13	23A31A4224	T. Divya Chandana	II	T. Divya Chandana
14	23A31A4216	M. Harshitha	II	Harshitha
15	23A31A4210	K. Monika	II	K. Monika

T. Divya Chandana
Student coordinator

A. Sanjay / P. Satyaavathi
Faculty Coordinator

A. Padma Krishna
HoD-CSE(AI&ML)



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Computer Science and Engineering
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S.No	Roll No.	Name of the Student	Year	Signature
16	23A31A4234	B.M.S. Aay	II	B. Aay
17	23A31A4253	O.Vamsi	II	O.Vamsi
18	23A31A4254	J. Sudheer	II	J. Sudheer
19	23A31A4264	Y. Manikanta	II	Y. Manikanta
20	23A31A4262	T. Nishok	II	T. Nishok
21	23A31A4256	P. Swaroop Kumar	II	P. Swaroop Kumar
22	23A31A4248	Beyhim. L	II	Beyhim. L
23	23A31A4266	D. Ravinayana	II	D. Ravin
24	23A31A42H2	G. Purga Malleswari	II	G. Mallu
25	23A31A42H5	K. Mohan Sai	II	K. Mohan Sai
26	23A31A42I4	P. Sriram	II	P. Sriram
27	23A31A42J3	V.S. Preetham	II	V. S. Preetham
28	23A31A42H3	K. Stephen	II	K. Stephen
29	23A31A42J1	U. Divyakan	II	U. Divyakan
30	23A31A42I3	N. Jaya Ashik	II	N. Ashik

T. Divya chandana
Student coordinator

A. Sujar / P. Satyavathi
Faculty Coordinator

A. Radha Krishna
HoD-CSE(AI&ML)



PRAGATI ENGINEERING COLLEGE

(Autonomous)

B.Tech

Computer Science and Engineering
(Artificial Intelligence & Machine Learning)

EVENT NAME: Neural network Architectures: The Backbone of Modern AI

DATE: 21/4/2025

SPEAKER NAMES: Dr. S. Surekha

The list of students attended for this event.

S.No	Roll No.	Name of the Student	Year	Signature
31	23A31A4221	P. Madhuvieja	I	P. Madhuvieja
32	23A31A4231	Y. Ramatulasi	II	Y. Ramatulasi
3	23A31A4206	I. L. S. S. Sai chandana	II	I. L. S. S. Sai chandana
4	23A31A4255	P. V. V. S. Akash	II	P. Akash
5	23A31A4241	E. P. V. R. Aditya	II	E. P. V. R. Aditya
6	23A31A4147	S. Sai Suprathak	II	S. Sai Suprathak
7	23A31A4243	K. Karthikeya	II	K. Karthikeya
8	23A31A4289	S. Surya Pavan	II	S. S. Pavan
9	23A31A4249	M. Shyam Sundar	III	M. Shyam Sundar
10	23A31A4262	T. Nishok Chandre	II	T. Nishok Chandre
11	24A35A4205	P. Jagadeesh	II	P. Jagadeesh
12	24A35A4206	T. Sivaganga	II	T. Sivaganga
13	23A31A4235	B. Sathwik Abhiram	II	B. Sathwik Abhiram
14	23A31A4245	K. S. Venu Akshay	II	K. S. Venu Akshay
15	23A31A4236	Ch. Balaji	II	Ch. Balaji

T. Divya chandana
Student coordinator

A. Radha Krishna
HoD-CSE(AI&ML)

A. Raju / P. Satyanath
Faculty Coordinator



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The list of students attended for this event.

S.No	Roll No.	Name of the Student	Year	Signature
16	23A31A42D1	A. Sowmya	II	Sowmya
17	23A31A42E0	E. Anusha	II	Anusha
18	23A31A42E7	M. Lakshmi	II	M. Lakshmi
19	23A31A42F0	P. Bhavya	II	P. Bhavya
20	23A31A42G0	V. Variaja	II	V. Variaja
21	23A31A42J0	T. Syamtomas	II	T. S. Kumar

T. Divya Chandana
Student coordinator

A. Srinivas / P. Satyavathi
Faculty Coordinator

A. Radha Krishna
HoD-CSE(AI&ML)

FEED BACK ANALYSIS

How satisfied were you with the session content:

Total number of Students: **44**

TECHNICAL PRESENTATION OF THE SPEAKER (1(Lowest)-5(Highest)):

Number of Students Rating **5: 34**

Number of Students Rating **4: 9**

Number of Students Rating **3: 1**

Number of Students Rating **2: 0**

CONTENT OF THE TOPIC COVERED (1(Lowest)-5(Highest)):

Number of Students Rating **5 : 30**

Number of Students Rating **4 : 13**

Number of Students Rating **3 : 1**

Number of Students Rating **2 : 0**

Overall rating: **Very Good**

Overall Feedback: **GOOD**

Content delivered in the event:

A neural network is a machine learning model inspired by the structure and function of the human brain, designed to recognize patterns and make decisions. It consists of interconnected nodes, or neurons, that process data and learn from it to perform various tasks

Structure: The "Backbone"

A standard neural network has three main types of layers:

- **Input Layer:** Receives the raw data (like pixel values from an image).
- **Hidden Layers:** Where the actual "thinking" happens through transformations and computations.
- **Output Layer:** Produces the final result (like classifying an image as "dog" or "cat").

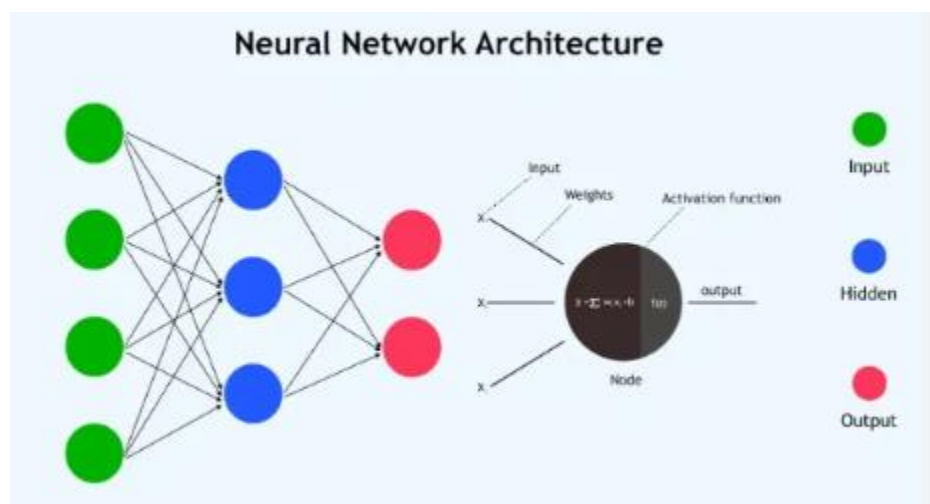
The **backbone** usually refers to the **core architecture** — the part that processes and extracts features from the data.

In **computer vision**, for example, backbones are powerful feature extractors like:

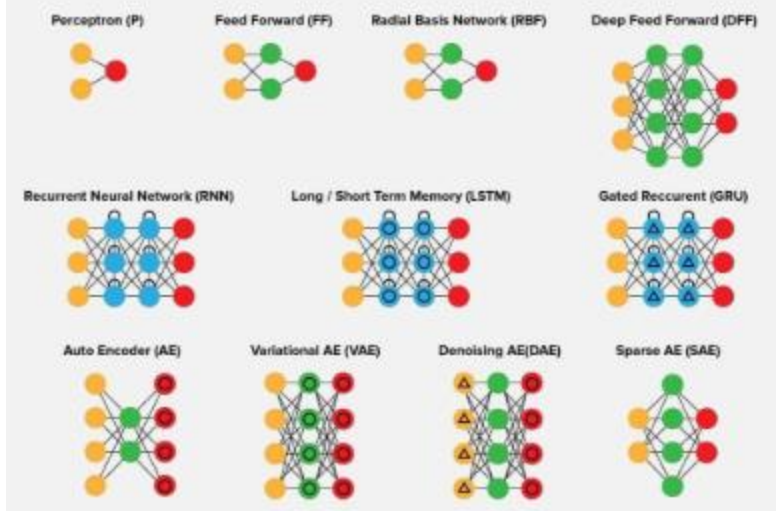
- **ResNet** (Residual Networks)
- **VGG** (Visual Geometry Group network)
- **EfficientNet**
- **DenseNet**

In **natural language processing (NLP)**, common backbone architectures include:

- **Transformer** (this is huge — it powers models like ChatGPT, BERT, etc.)
- **LSTM** (Long Short-Term Memory networks)
- **GRU** (Gated Recurrent Units)

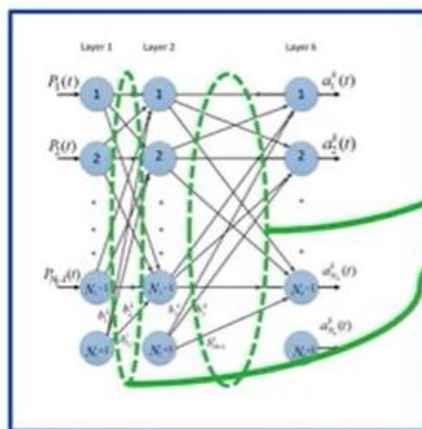


Neural Networks



RECALL MULTI-LAYER ARTIFICIAL NEURAL NETWORK

- Let's connect multiple of these neurons in a multi-layered fashion.
- The more hidden layers, the more "deep" the network will get.



MATRIX OF WEIGHTS

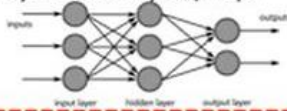
$$\begin{bmatrix} W_{11} & W_{12} & \dots & W_{1,N_1} \\ W_{21} & W_{22} & \dots & W_{2,N_1} \\ \vdots & \vdots & \ddots & \vdots \\ W_{m-1,1} & W_{m-1,2} & \dots & W_{m-1,N_1} \\ W_{m,1} & W_{m,2} & \dots & W_{m,N_1} \end{bmatrix}$$

DURING ARTIFICIAL NEURAL NETWORKS TRAINING, OUR GOAL IS TO FIND THE OPTIMAL VALUES OF WEIGHTS

TYPES OF ARTIFICIAL NEURAL NETWORKS

• Feedforward Neural Networks

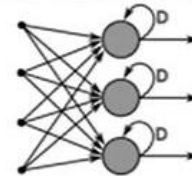
- One to one mapping
- Classification or regression
- information flows from input layer directly through hidden layers then to the output layer without cycles/loops



LET'S VISUALIZE THESE TWO TYPES OF NETWORKS USING GOOGLE TENSORFLOW PLAYGROUND AND TENSORSPACE.JS

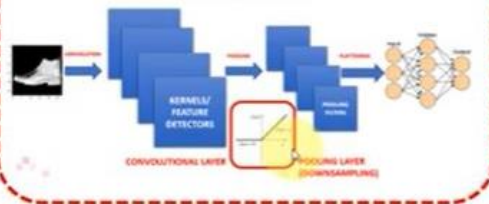
• Recurrent Neural Networks

- Considers temporal (time) information
- Used for sequences prediction (future stock prices, translation, text).
- Long short term memory (LSTM) and GRU (Gated Recurrent Unit)



• Convolutional Neural Networks

- Image classification



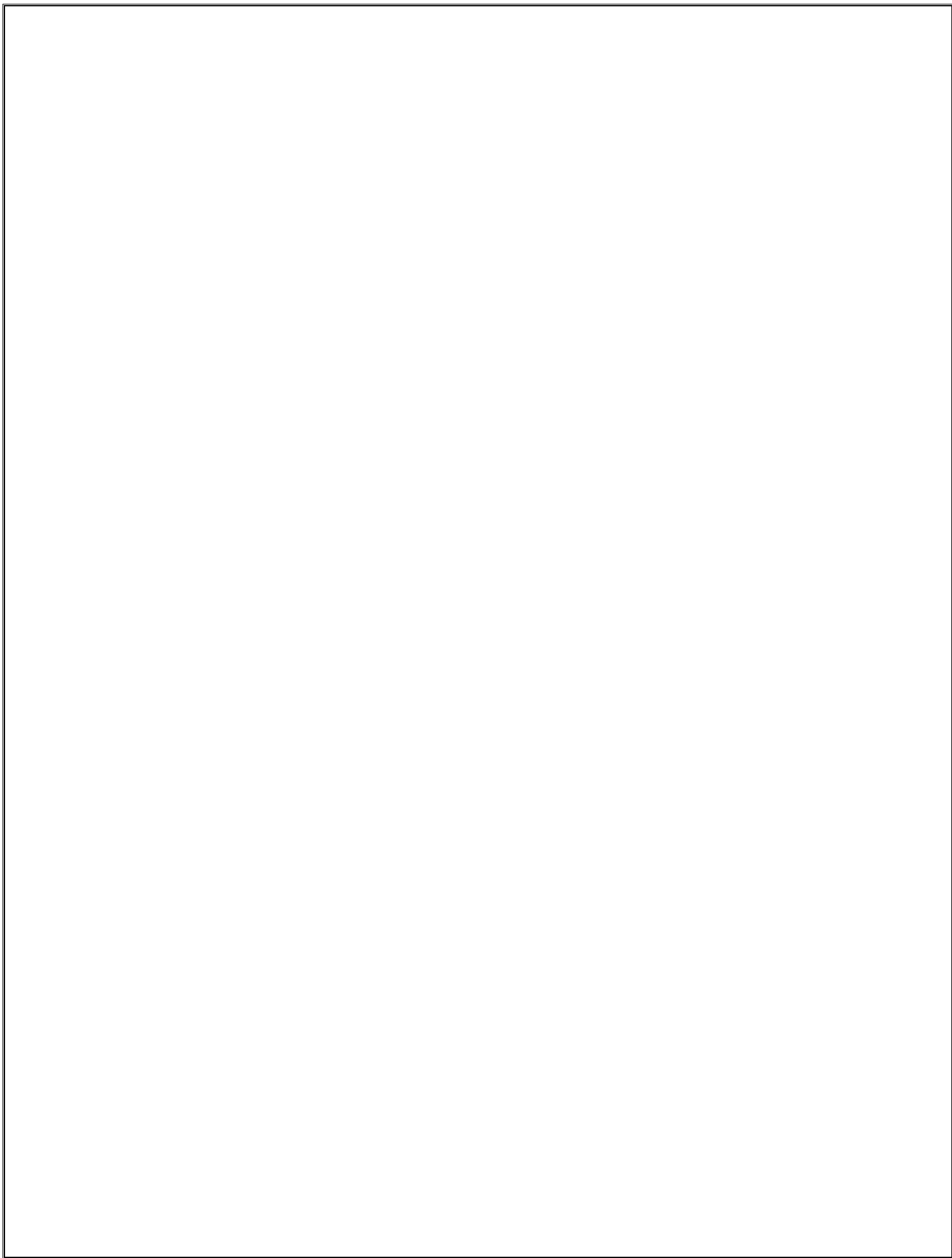
DEEP LEARNING HISTORY

- There are many trained off the shelf convolutional neural networks that are readily available such as:
 - **LeNet-5 (1998)**: 7 level convolutional neural network developed by LeCun that works in classifying handwriting numbers.
 - **AlexNet (2012)**: Offered massive improvement, error reduction from 26% to 15.3%
 - **ZFNet (2013)**: achieved error of 14.8%
 - **Googlenet/Inception (2014)**: error reduction to 6.67% which is at par with human level accuracy.
 - **VGGNet (2014)**
 - **ResNet (2015)**: Residual Neural Network includes "skip connection" feature and therefore enabled training of 152 layers without vanishing gradient issues. Error of 3.57% which is superior to humans.
 - Check out this great resource: <https://medium.com/analytics-vidhya/cnns-architectures-lenet-alexnet-vgg-googlenet-resnet-and-more-666091488df5>

Photos:







PHOTOS:

Department of CSE (Artificial Intelligence & Machine Learning)



Organizes

A Guest Lecture on

IAENG

" NEURAL NETWORK ARCHITECTURES : THE BACKBONE OF MODERN AI "



by

Dr. S. Surekha

Asst. Professor of CSE, JNTUK, KAKINADA

2nd April-2025

In Association with IAENG (International Association of Engineers) & Turing Club



Pragati Engineering College
(AUTONOMOUS)





PRAGATI ENGINEERING COLLEGE

(Autonomous)

1-378 ,ADB Road, SURAMPALEM - 533437

DEPARTMENT OF CSE (Artificial Intelligence & Machine Learning)

PEC / Admin / Circular / 2025 / Turing CLUB

Date: 31-3-2025.

All the staff, Pragati Turing club coordinators, Third year Students are informed that a seminar on **“Neural Network Architectures the Backbone of Modern AI”** is being organized by Turing club in association with career Guidance cell. The details are given below.

Date: 2-3-2025

Time: 10:00 AM To 12.30PM

Venue: Seminar Hall -1

Faculty Co-coordinators: Mrs.L.Yamuna, Mrs. A .Srujana Jyothi, Mrs. P. Satyavathi

Student Co-Ordinator: Teeda Divya Chandana (23A31A4224)

Speaker: Dr .S. Surekha Asst Professor of CSE,
JNTUK, KAKINADA, E.G Dist.

Faculty coordinator

HoD-CSE (AI&ML)

Copy to:

- 1) Chairman /All Directors / Vice President for kind information.
- 2) Vice Principal/Dean T&P for information.
- 3) All HODs are requested to circulate among your staff members.
- 4) Convener-Career Guidance cell
- 5) Office File.