

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



“NEXT - GEN AI REVOLUTION”

Date: 27-9-2025

Day: Saturday

Turing Club organised by the Dept. of CSE – AI&ML of Pragati Engineering College in association with Career Guidance Cell is organizing a seminar on **“Next - Gen AI Revolution”** as part of Industry 4.0.

Attendance list:

S.No	Name of The Student	Name of The Guest Lectures	Date and venue
1	ADDALA SYAM SANJAY	Next-Gen AI Revolution	27-9-2025 ONLINE
2	AISHU ISM	Next-Gen AI Revolution	27-9-2025 ONLINE
3	AJAY DASARI	Next-Gen AI Revolution	27-9-2025 ONLINE
4	AJAY KUMAR DONTULA	Next-Gen AI Revolution	27-9-2025 ONLINE
5	ALISHA SHAIK	Next-Gen AI Revolution	27-9-2025 ONLINE
6	AMARESH NIDADALA	Next-Gen AI Revolution	27-9-2025 ONLINE
7	AMRUTHA RAYUDU	Next-Gen AI Revolution	27-9-2025 ONLINE
8	ANJANI SURYA PRABHA KATTA	Next-Gen AI Revolution	27-9-2025 ONLINE
9	ANUPAMA	Next-Gen AI Revolution	27-9-2025 ONLINE
10	ATTILI RATNA PRIYA	Next-Gen AI Revolution	27-9-2025 ONLINE
11	BATCHU CHANDRA SHEKHAR SWAMY	Next-Gen AI Revolution	27-9-2025 ONLINE
12	BHANU PRAVEEN MATHSA	Next-Gen AI Revolution	27-9-2025 ONLINE
13	BHARGAVILAKSHMI BANDARI	Next-Gen AI Revolution	27-9-2025 ONLINE
14	BHAVYA P	Next-Gen AI Revolution	27-9-2025 ONLINE
15	BINDHU MADHAVI	Next-Gen AI Revolution	27-9-2025 ONLINE
16	CHANDRA KRANTHI TUMU	Next-Gen AI Revolution	27-9-2025 ONLINE
17	CHARAN TEJA G	Next-Gen AI Revolution	27-9-2025 ONLINE
18	DHANVY DUGGANA	Next-Gen AI Revolution	27-9-2025 ONLINE
19	DURGA ESWAR ASHOK GABU	Next-Gen AI Revolution	27-9-2025 ONLINE
20	DURGA MALLESWAR GUMMIDI	Next-Gen AI Revolution	27-9-2025 ONLINE
21	ESWAR ASHOK	Next-Gen AI Revolution	27-9-2025 ONLINE
22	GNANADEEP ABHILASH	Next-Gen AI Revolution	27-9-2025 ONLINE
23	GOGADA MUKESH	Next-Gen AI Revolution	27-9-2025 ONLINE
24	HARSHITA GUTTULA	Next-Gen AI Revolution	27-9-2025 ONLINE
25	HEMANTH MANIKANTA	Next-Gen AI Revolution	27-9-2025 ONLINE
26	JAGADEESH	Next-Gen AI Revolution	27-9-2025 ONLINE
27	JAI KUMAR BASANAOINA	Next-Gen AI Revolution	27-9-2025 ONLINE
28	SRK AKSHRA	Next-Gen AI Revolution	27-9-2025 ONLINE
29	KADALI SRUJANA	Next-Gen AI Revolution	27-9-2025 ONLINE
30	KAVYA AKASH	Next-Gen AI Revolution	27-9-2025 ONLINE
31	KEERTHI YALAMANCHILI	Next-Gen AI Revolution	27-9-2025 ONLINE
32	KHT SAIKIRAN	Next-Gen AI Revolution	27-9-2025 ONLINE
33	KISHORE DAMMALA	Next-Gen AI Revolution	27-9-2025 ONLINE
34	KONA DEVI	Next-Gen AI Revolution	27-9-2025 ONLINE
35	KOTHEM KANAKA MAHA LAKSHMI	Next-Gen AI Revolution	27-9-2025 ONLINE
36	KOUSALYA MONDI	Next-Gen AI Revolution	27-9-2025 ONLINE
37	ABHIRAM	Next-Gen AI Revolution	27-9-2025 ONLINE
38	LALITHA KAMIDI	Next-Gen AI Revolution	27-9-2025 ONLINE
39	LAVANYA K	Next-Gen AI Revolution	27-9-2025 ONLINE
40	MADHURI REDDY	Next-Gen AI Revolution	27-9-2025 ONLINE
41	MAHESH	Next-Gen AI Revolution	27-9-2025 ONLINE
42	MANDE ANUSHKA	Next-Gen AI Revolution	27-9-2025 ONLINE
43	MANI DEEPIKA MYGAPULA	Next-Gen AI Revolution	27-9-2025 ONLINE
44	MATHRUSRI BURRI	Next-Gen AI Revolution	27-9-2025 ONLINE
45	MIDHUNA KOLIKONDA	Next-Gen AI Revolution	27-9-2025 ONLINE

46	MOHAN SAI KINTHADA	Next-Gen AI Revolution	27-9-2025 ONLINE
47	NAGA DEVI VINAY SANTHOSHI MATTAPARTHI	Next-Gen AI Revolution	27-9-2025 ONLINE
48	PENUMALLA SRIKEERTHI	Next-Gen AI Revolution	27-9-2025 ONLINE
49	POORNACHANDRA VARMA	Next-Gen AI Revolution	27-9-2025 ONLINE
50	V SIDDHARDHA	Next-Gen AI Revolution	27-9-2025 ONLINE
51	SURYA NIKHIL	Next-Gen AI Revolution	27-9-2025 ONLINE
52	REDDY KUSUMA	Next-Gen AI Revolution	27-9-2025 ONLINE
53	SAI SUMA	Next-Gen AI Revolution	27-9-2025 ONLINE
54	SAIHARSHA DEVAGUPTHAPU	Next-Gen AI Revolution	27-9-2025 ONLINE
55	SAJID SHAIKH	Next-Gen AI Revolution	27-9-2025 ONLINE
56	SALADI PRASANNA	Next-Gen AI Revolution	27-9-2025 ONLINE
57	SANTOSHI	Next-Gen AI Revolution	27-9-2025 ONLINE
58	SATHVIKA MARREDDI	Next-Gen AI Revolution	27-9-2025 ONLINE
59	SHEKAR SHEKAR	Next-Gen AI Revolution	27-9-2025 ONLINE
60	SINDHU MENDU	Next-Gen AI Revolution	27-9-2025 ONLINE
61	SIVA RAMA KRISHNA MYNAM	Next-Gen AI Revolution	27-9-2025 ONLINE
62	SNEHA	Next-Gen AI Revolution	27-9-2025 ONLINE
63	SNEHA CHANNA	Next-Gen AI Revolution	27-9-2025 ONLINE
64	SRI	Next-Gen AI Revolution	27-9-2025 ONLINE
65	SRI VANAJA GEETHA KOLA	Next-Gen AI Revolution	27-9-2025 ONLINE
66	SRIHITHA ADIREDDY	Next-Gen AI Revolution	27-9-2025 ONLINE
67	SRINUTHANA .V	Next-Gen AI Revolution	27-9-2025 ONLINE
68	SRIRAM DEEPAK	Next-Gen AI Revolution	27-9-2025 ONLINE
69	SRIRAM PENTAKOTA	Next-Gen AI Revolution	27-9-2025 ONLINE
70	SRIYA DUDALA	Next-Gen AI Revolution	27-9-2025 ONLINE
71	M ANUSKA	Next-Gen AI Revolution	27-9-2025 ONLINE
72	SRIJA KOPPISETTI	Next-Gen AI Revolution	27-9-2025 ONLINE
73	STEPHEN BABU KADALI	Next-Gen AI Revolution	27-9-2025 ONLINE
74	SUNKARA ALEKHYA	Next-Gen AI Revolution	27-9-2025 ONLINE
75	SUNNY MUPPIDI	Next-Gen AI Revolution	27-9-2025 ONLINE
76	SUPRIYA SUPRIYA	Next-Gen AI Revolution	27-9-2025 ONLINE
77	SURESH PENUMALLA	Next-Gen AI Revolution	27-9-2025 ONLINE
78	SUSHMA GUNDUMALLA	Next-Gen AI Revolution	27-9-2025 ONLINE
79	SWAROOPARANI SADHANALA	Next-Gen AI Revolution	27-9-2025 ONLINE
80	SYAM BALAGA	Next-Gen AI Revolution	27-9-2025 ONLINE
81	T. SYAM KUMAR	Next-Gen AI Revolution	27-9-2025 ONLINE
82	TEJASWINI DASARI	Next-Gen AI Revolution	27-9-2025 ONLINE
83	UMA MAHESWARI NATRA	Next-Gen AI Revolution	27-9-2025 ONLINE
84	UMA SAI PERURI	Next-Gen AI Revolution	27-9-2025 ONLINE
85	LALITHA KUMARI	Next-Gen AI Revolution	27-9-2025 ONLINE
86	VIJAY PRADEEP RAJ	Next-Gen AI Revolution	27-9-2025 ONLINE
87	VIJAYA DEEPTHI	Next-Gen AI Revolution	27-9-2025 ONLINE
88	VIJAYA SAESHWAR SAKALA	Next-Gen AI Revolution	27-9-2025 ONLINE
89	VIVEK CHIKKALA	Next-Gen AI Revolution	27-9-2025 ONLINE
90	SIRI CHANDANA	Next-Gen AI Revolution	27-9-2025 ONLINE
91	ZETACODING INNOVATIVE SOLUTIONS	Next-Gen AI Revolution	27-9-2025 ONLINE
92	PRETHAM	Next-Gen AI Revolution	27-9-2025 ONLINE

FEED BACK ANALYSIS

ID	NAME	ROLL NUMBER	SECTION	About speaker	Content of the topic	Other suggestion
1	Reddy Kusuma	23A31A42F4	C	5	4	
2	Rayudu Amrutha		B	5	5	
3	Teku Syam Kumar	23A31A42J0	C	5	5	
4	Chakravarthula sri sai varsha	23A31A42D6	C	5	5	
5	Kola Sri Vanaja Geetha	23A31A4209	A	5	5	
6	Geesala Bhavani sai suma	24A31A4272	B	5	5	I learn something new in this session
7	mathrusri	23a31a42d5	C	5	5	no
8	Nallamilli Dhanya Radhika	23A31A42E9	C	4	4	
9	Duggana Dhanvy	24A31A42G9	C	4	5	
10	Jaggumahanthi Nithin sai	23A31A4242	A	5	5	No
11	VANGALAPUDI SATISH PREETHAM	23A31A42J3	C	4	5	If there is any interaction between any topic it will be good to communicate so that we can gain more knowledge
12	Sriya Dudala	23A31A42D9	C	4	4	
13	S.Alekhy	24A31A4298	B	5	5	
14	M.SRI RAM SAI ESWAR	23A31A42H9	C	5	5	
15	Gubbala swamy naga charan teja	24A31A42H3	C	5	5	
16	Maddimsetti mohana ramaji saravan	24A31A4245	A	3	3	
17	K M MAHESH	24A31A42H7	C	4	4	Good
18	Dammala Hari Kishore	24A31A4234	A	4	5	
19	Geddada Lavanya	23A31A4274	B	5	5	
20	V.Sri Nuthana	24A31A42G2	C	5	5	
21	Pakkurthi Bindhu Madhavi	24A31A42F2	C	5	5	Nothing
22	Oruganti Pradeep kumar	23A31A42c2	B	5	5	no
23	Kopparthy Gayatri Devi	24A31A42E2	C	5	5	
24	Kalisetti Yogitha	24A31A4213	A	5	5	
25	Vedulla Divya	23A31A4229	A	4	4	No
26	Y.Keerthi Varshini	24A31A42G3	AI&ML - C	4	5	Thank you very much sir..i enjoyed the way of explaining about the generative ai and also it helped me a lot to learn new things..hope you will continue to take the sessions in the future.

Overall rating: **Good**

Content Delivered in the Event:

Topic: Next-Gen AI Revolution – Architectures, Applications, and Emerging Research Directions

Organized by: Zetacoding Innovative Solutions, Bengaluru

In Association with: Pragati Engineering College, Dept. of CSE (AI & ML)

Presented by: Mr. Majid Shaikh (Co-Founder & Technical Director, Zetacoding Innovative Solutions)

1. Introduction to Next-Gen AI

- Artificial Intelligence is rapidly evolving, with new architectures and applications emerging across industries.
 - Generative AI represents a significant leap by enabling machines to **generate** content — text, images, audio, video — similar to human creations.
 - The session focused on **modern generative models**, their **core technologies**, and **real-world applications**.
-

2. Types of Generative AI Models

Generative models learn from data to produce new data with similar characteristics. Key types include:

1. **Generative Adversarial Networks (GANs)**
 - Consist of a generator and discriminator competing against each other to produce realistic outputs.
2. **Variational Autoencoders (VAEs)**
 - Use probabilistic encodings to generate diverse and smooth data distributions.
3. **Autoregressive Models**
 - Generate data step by step, conditioned on previous outputs.
4. **Flow-based Generative Models**
 - Use invertible transformations for exact likelihood estimation and data generation.
5. **Diffusion Models**
 - Gradually transform noise into meaningful data through a reverse diffusion process.
6. **Transformer-based Models**
 - Backbone of modern LLMs; handle sequences efficiently using attention mechanisms.
7. **Neural Style Transfer**
 - Transfer artistic styles between images to create visually unique outputs.
8. **Recurrent Neural Networks (RNNs)**
 - Handle sequential data like text or time-series.
9. **Boltzmann Machines**
 - Stochastic networks for learning deep representations.
10. **Deep Belief Networks (DBNs)**
11. **Generative Moment Matching Networks (GMMNs)**
12. **Adversarial Autoencoders (AAEs)**
13. **PixelCNN and PixelRNN**
14. **WaveNet** – Audio generation
15. **MuseGAN** – Music generation

3. Key Technologies: Transformers (Large Language Models)

Transformers are the **foundation of modern Generative AI**. They enable systems to **understand and generate human-like text, images, videos, and more**.

- **LLMs (Large Language Models):**
 - GPT, BERT, T5, etc.
 - Handle large-scale text understanding and generation tasks.
- Transformers use the **attention mechanism**, enabling parallel processing and contextual understanding over long sequences.
- Widely applied across multiple domains due to their scalability and performance.

Real-Time Examples:

- **ChatGPT / Google Gemini** → Conversational AI
- **DALL·E / Stable Diffusion** → Text-to-Image generation
- **Whisper** → Speech-to-Text
- **GitHub Copilot** → AI Code Assistant

4. Applications of Generative AI

- **Conversational Systems:** Chatbots, virtual assistants, and customer support automation.
- **Content Creation:** Art, music, video, article generation.
- **Code Generation:** AI-assisted development tools.
- **Healthcare:** Drug discovery, medical imaging, and diagnostics.
- **Education:** Personalized tutoring and content generation.

5. Emerging Research Directions

- Efficient and scalable training of LLMs.
- Ethical considerations, bias mitigation, and responsible AI.
- Multimodal models (text, image, video combined).
- Low-resource language modeling and domain-specific AI systems.
- Edge deployment of generative models.

PHOTOS:

ZETACODING INNOVATIVE SOLUTIONS (Presenting)

Next-Gen AI Revolution

Architectures, Applications, and Emerging Research Directions

Zetacoding Innovative Solutions, Bengaluru
in Association with
Pragati Engineering College
Dept. of CSE (AI & ML)

Under the Supervision of
Dr. A. Radha Krishna
HOD-CSE (AI & ML)
Pragati Engineering College

Presented by
Mr. Majid Shaikh
Co-Founder & Technical Director
Zetacoding Innovative Solutions, Bengaluru

People

Mute all Add people

Search for people

IN THE MEETING

Contributors 57

- Yamuna Lakkamsani (You) Meeting host
- aishu ism
- Ajay Dasari
- Ajay Kumar Donthula
- Alisha Shaikh
- Amrutha Rayudu

10:15 AM | qme-snja-kan

Tracking Started 15 min 53s ago Click To Generate Report

Evolution: From Rule-based AI → Machine Learning → Deep Learning → Generative AI.

1956 Artificial Intelligence
AI, the field of Computer Science, that seeks to create machines that matches human intelligence

1997 Machine Learning
ML is a branch of AI where machines learn and improve from existing data to make decision or prediction

2017 Deep Learning
Deep Learning uses multi-layered neural networks to analyze complex data, mimicking the human brain.

2021 Generative AI
Generative AI creates new content (text, code, image, audio, video) by learning from existing data.

People

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Contributors 57

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- Amrutha Rayudu

10:15 AM | qme-snja-kan

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Types of Generative AI Models

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2. Variational Autoencoders (VAEs)
3. Autoregressive Models
4. Flow-based Generative Models
5. Diffusion Models
6. Transformer-based Models
7. Neural Style Transfer



A lot of people are here. The people list shows them all. [View all](#)

8. Recurrent Neural Networks (RNNs)
9. Boltzmann Machines
10. Deep Belief Networks (DBNs)
11. Generative Moment Matching Networks (GMMNs)
12. Adversarial Autoencoders (AAEs)
13. PixelCNN and PixelRNN
14. WaveNet
15. MuseGAN

Key Technologies: Transformers (Large Language Models

Transformers helps Generative AI by understanding and generating human-like text, images, videos and more. They enable large language models (LLMs) like GPT, BERT, and T5 (Text-to-Text Transfer Transformer). Foundation of modern AI applications across multiple domains.

Real-Time Examples

- ChatGPT / Google Gemini → Conversational AI
- DALL·E / Stable Diffusion → Text-to-Image generation
- Whisper → Speech-to-Text
- GitHub Copilot → AI Code Assistant





Pragati
Engineering
College



PATHVE
Pragati Advanced Technology Pvt. Ltd.

★ Dept. of CSE (Artificial Intelligence & Machine Learning) ★

Organizes
An

Online Guest Lecture
on
Next - Gen AI Revolution
by



Resource Person :
Mr. Majid Shaikh
Co-Founder & Technical Director
Zetacoding Innovative Solutions
Bengaluru

27th September 2025

10.00 AM - 11.00 AM



PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF CSE (Artificial Intelligence & Machine Learning)

PEC / Admin / Circular / 2025 / Turing CLUB

Date: 25- 9-2025

All the staff, Pragati Turing club coordinators, Third year Students are informed that a seminar on **“Next Gen AI Revolution”** is being organized by Turing club & IAENG in association with career Guidance cell. The details are given below.

Date: 27-9-2025

Time: 10:00 AM to 11:00 AM

Venue: Online

Faculty Co-Ordinator: Mrs.L.Yamuna,

Student Co-Ordinator: A.B.V.D.BHIMESH (III -year CSE (AI&ML)-23A31A42G2)

G.D.ESWAR ASHOK (III-year CSE (AI&ML)-23A31A42G9)

Speaker: Mr. Majid Shaikh

Co-Founder & Technical Director

Zetacoding Innovative Solutions

Bengaluru

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.