



सत्यमेव जयते

राष्ट्रीय इलेक्ट्रॉनिकी एवं सूचना प्रौद्योगिकी संस्थान, कालीकट
National Institute of Electronics & Information Technology, Calicut

Ministry of Electronics and
Information Technology
Government of India

Online Course Prospectus

ISO 9001-2015 Certified

Generative AI Fundamentals

24th June – 28th June 2024
(2 hours daily)

Course Description

The objective of this course is to explore the transformative power of generative AI. The candidate will learn popular generative models and how they work, how generative models are developed using tools like GPT and Hugging Face, text generation, image, audio, and video generation. Gain hands-on experience with cutting-edge tools and techniques, including GANs and recurrent neural networks, to create innovative AI applications.

[Click Here to Register](#)

Generative AI Fundamentals

Who can attend?

Anyone who is interested to learn Generative AI. It is designed for

- Students / Working Professionals.

Course Content

Session	Topic
1	Introduction to Data, Introduction to AI, AI Applications, Machine Learning-Classification, Regression, Clustering, Artificial Neural Networks, Deep Learning
2	Introduction to Generative AI, History and Evolution of Generative AI, Capabilities of Generative AI, How Generative AI works/ Techniques in Gen AI, Generative AI applications, Tools for Text Generation, Tools for Image Generation, Tools for Audio and Video Generation, Tools for Code Generation
3	Introduction to Generative Adversarial Networks (GANs), Understanding of GANs architecture and training process, Generating Images with GANs
4	Exploring Variants of GANs: Use Cases, Challenges in Training GANs and How to Overcome Them, Case Studies: Real-world Applications of GANs, Hands-on Session: Implementing a DCGAN for Image Generation.
5	Generative AI in Text and Language: Introduction to Text Generation, Basics of Recurrent Neural Networks (RNNs) and Transformers, Building Text Generators with Simple Neural Networks, Hands-on Session: Creating a Text Generator

Fee and important dates

Course Fee	Rs. 1500/- (Including GST)
Last date for registration and payment	19 th June 2024
Sharing of course page link and password	21 st June 2024

Prerequisite

Basic Knowledge of Python and Machine Learning.

Certificate

Participation Certificate will be issued to all candidates who attend the course.

Minimum Requirements

Attendees must have a computer system with good internet connection.

Faculty

Dr. Vimala Mathew

Scientist E

For more details

For more details contact vimala@calicut.nielit.in

9446017466 (from 9.00AM to 5.30PM)

Terms and Conditions

- 1. In case any registered candidate could not attend the online session due to technical issue at their side there will not be any refund of the course fee and the sessions will not be repeated.*
- 2. In case the online course is cancelled /postponed due to some technical issue at NIELIT side and new date is not convenient to the candidate, our liability is limited to the refund of the course fee and NIELIT shall not be responsible for any consequential damages.*
- 3. 60% attendance and feedback submission are mandatory for awarding 'participation' certificate.*

For more details about our institution and facilities visit us

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Twitter: https://twitter.com/CAL_NIELIT

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Autonomous Scientific Society of
Ministry of Electronics & Information Technology,
Govt. of India



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