SHRI RAMSWAROOP MEMORIAL UNIVERSITY
Lucknow Deva Road, Barabanki, Uttar Pradesh - 225003
ESTD 2012

INSTITUTION'S INNOVATION COUNCIL
(Ministry of HRD Initiative)

TechPal

IQAC Internal quality assurance cell

in collaboration with

Department of Computer Science and Engineering | Institute of Management Commerce and Economics | Department of Extension Services

Certificate Course on
Starting with Generative Ai

10 June - 10 July 2024 | Anyone Can Register

OPEN FOR EVERYONE

Overview

Generative AI refers to a class of artificial intelligence algorithms and models that are designed to generate new content, such as images, text, audio, or even video, that is similar to, or indistinguishable from, data it has been trained on. These models often use techniques like neural networks, deep learning, and probabilistic models to generate this content.

One of the most well-known types of generative AI models is the Generative Adversarial Network (GAN), introduced by Ian Good fellow and his colleagues in 2014. In GANs, two neural networks, the generator and the discriminator, are trained simultaneously in a game-like setting. The generator learns to produce realistic data samples, while the discriminator learns to distinguish between real data and generated data. Through this adversarial process, the generator gradually improves its ability to produce content that is increasingly difficult for the discriminator to differentiate from real data.

Generative AI has numerous applications across various domains, including image generation, text generation, music composition, and even drug discovery. It has sparked both excitement and concern due to its potential to create highly realistic synthetic content, raising questions about its ethical implications, such as the creation of deepfakes and the potential for misuse. However, it also holds great promise for creative applications, artistic expression, and advancing the capabilities of AI systems.

Detailed Training Schedule (One month 35-40 Hours and 5 Days per Week)

Day	Topic
1	Introduction To Workshop Objective & Setting The Expectations Pre-Test
2	Introduction Generative AI And Role Of Data
3	Understanding LLM
4	Understanding LLM
5	Understanding LLM
6	Drawing Data From Models
7	Drawing Data From Models
8	Building Blocks Of Deep Neural Networks
9	Building Blocks Of Deep Neural Networks
10	Teaching Networks To Generate Digits
11	Teaching Networks To Generate Digits
12	Image Generation With GANs
13	Image Generation With GANs
14	Deepfakes With GANs
15	Deepfakes With GANs
16	Preparing For Facing Interviews
17	Generating LLM
18	Generating LLM
19	Project Work
20	Project Work
21	Post Test, Final Assessment, Feedback And Certificate Distribution

Instructor Profile

Dr. S. Suresh Kumar
Senior Technical Advisor, TechPal

Dr. Suresh is an Innovative, Research Oriented, Quality Minded and result oriented Disruptive Data Scientist of global repute with 26+ years of experience; executing data-driven analytical solutions to increase efficiency, accuracy, and utility of internal data processing. Master in Experiential Learning methodology. Experienced at creating predictive data models, BeSpoke ML/DL algorithms for efficient AI and analyzing data mining algorithms to deliver insights and implement action-oriented solutions to complex business problems as well for effective/efficient BI / BA using TABLEAU / PowerBI. Ensures successfulness at work using KANBAN and SCRUM methodologies at workplace. In a nutshell, Dr Suresh may be described as an Industry Icon with strong academic expert blended with extraordinary application proficiency/ excellence in the IT and Software Domain.

Mentors

Cheif Partron	**Er. Pankaj Agarwal,** Chancellor, SRMU
Cheif Partron	**Er. Pooja Agarwal,** Pro-Chancellor, SRMU
Patron	**Prof. (Dr.) B.M Dixit,** Vice Chancellor, SRMU
Convener	**Prof. (Dr.) Ritu Chandra,** Director, IQAC & IER, SRMU
Convener	**Dr. Veena Singh,** Dy. Director Extension Services & Community Engagement
Coordinators	**Dr. Bineet Gupta** (DCSIS), **Dr. Satyabhushan Verma** (DCSE)
Coordinators	**Prof. (Dr.) Manish Kumar Tiwari** (IMCE), **Dr. Shilpa Shukla** (IQAC)
Course Coordinators	**Er. Kartikesh Tiwari, Er. Rohit Singh**
Course Coordinators	**Mr. Prashant Awasthi, Dr. Syed Asif Mehdi**
Course Co-Coordinators	**Mr. Mritunjay, Mr. Nirbhay Tiwari, Dr. Swati Yadav**
Course Co-Coordinators	**Ms. Neha Anand, Mr. Aditya Pratap Singh, Er. Raghuveer Sachan**
Student Coordinators	**Aslam Ali, Shreya Mahendra, Vartika Kanwal, Deepak Sharma**

Registration Process

Follow These Steps To Register:

Step 1: Scan and Pay
The Registration Fee Is ₹600
Pay Here: **https://rzp.io/I/UbJH8S23**

Scan & Pay | Register Now

Step 2: Register Now
https://forms.gle/XmDvWNj6sdrBvJzQ8

Note: Registration is open for everyone, You can register for more than one course.

Contact Us

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