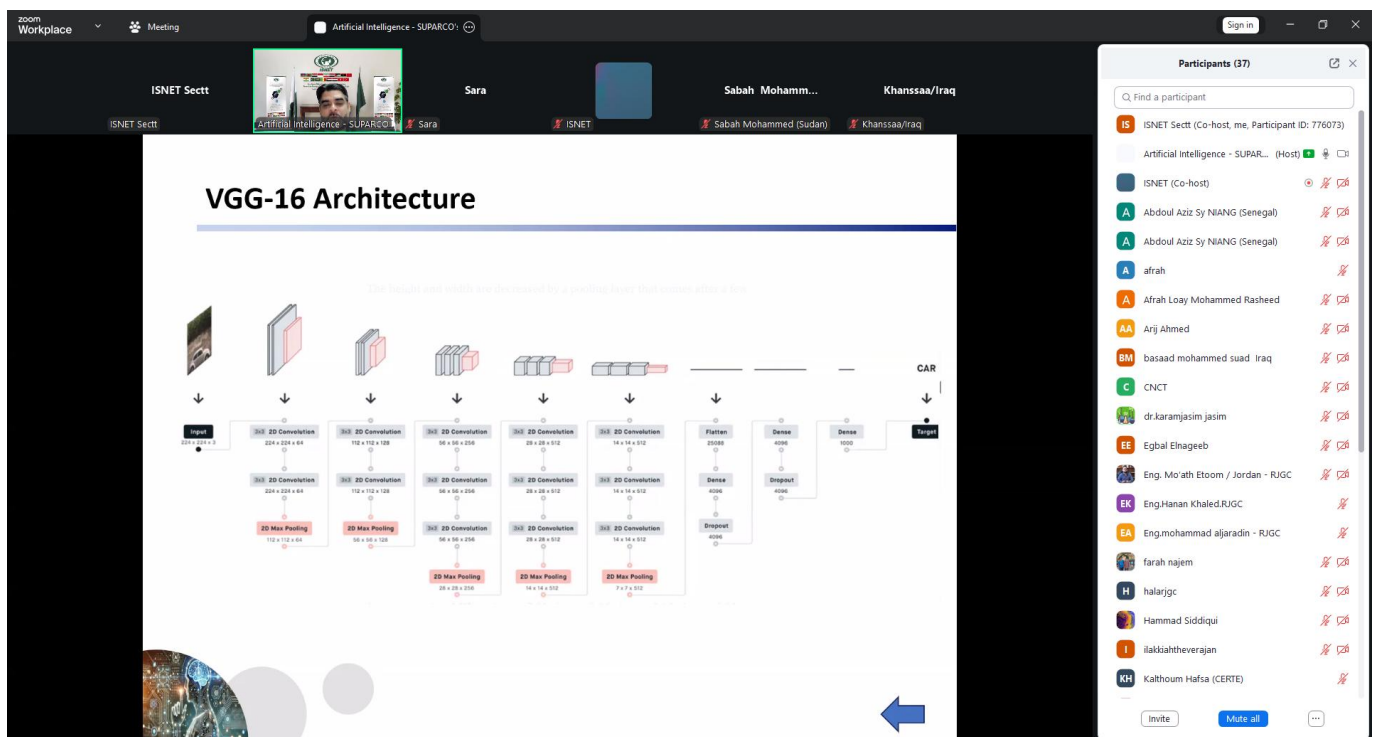


Training on "AI Powered Satellite Imagery Enhancement using Generative Adversarial Networks (GANs)"; 28-30 Apr 2026

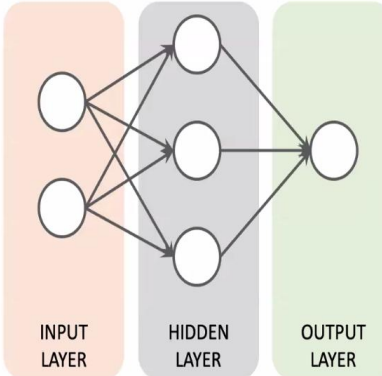
ISNET successfully organized a three-day online training course on “AI Powered Satellite Imagery Enhancement using Generative Adversarial Networks (GANs)” from **28-30 April 2026** under its capacity-building initiatives to promote the application of artificial intelligence in remote sensing and satellite image analysis. The course aimed to provide participants with the theoretical knowledge and practical understanding required to enhance low-resolution satellite imagery using advanced deep learning techniques based on Generative Adversarial Networks (GANs). The training was attended by students, researchers, and professionals interested in artificial intelligence, image processing, and geospatial technologies. The program covered key topics including the fundamentals of deep learning and GAN architectures, SRGAN and ESRGAN models, super-resolution techniques, image preprocessing, evaluation metrics, and recent case studies on satellite image enhancement. Through lectures, AI model demonstrations, and interactive discussions, participants gained insights into the implementation of GAN based approaches for improving satellite image quality and understanding the advantages and limitations of different super-resolution methods. By the conclusion of the course, participants had developed a solid understanding of AI driven satellite image enhancement techniques, enabling them to apply modern deep learning approaches to remote sensing applications, research, and future geospatial projects.



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Neural Network Basics



The **first layer** that receives **raw data** (e.g., images, text, numerical values) and **passes** the data to the **next layer**

These are the **intermediate layers** between the **input** and **output** layers to perform **computations** using **neurons** (nodes) and **activation functions**

The **final layer** that provides the **network's output** in the form of **prediction** or **classification**

INPUT LAYER HIDDEN LAYER OUTPUT LAYER

Participants (27)

Waiting room (4)

TechTimeIQ

khanasaa Munther Abdul Majed

ايها الله البصري

M.M

Joined (27)

Join audio Video Participants 31 Chat React Share Host tools AI Companion More Leave

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Thank You



Participants (32)

ISNET Sectt (Co-host, me, Participant ID: 776073)

Artificial Intelligence - SUPARCO (Host)

ISNET (Co-host)

Abdoul Aziz Sy NIANG (Senegal)

Invite Mute all

Training Course on AI-Powered Satellite Im...

Everyone New chat

Thanks to you All

basaid mohammed suad Iraq 3:29 PM

thank you for all

CNCT 3:29 PM

what do you think about the quality of results obtained by GANs and the validation of results

the mic is not works

please can you provide examples of satellite image processing by GANs

thank you very much

Who can see your messages? Recording on

Message everyone