

Two Days National Workshop on "NVIDIA Certified- Building Real Time Video AI Applications"

OCTOBER 31 & NOVEMBER 1
2025

in Collaboration with
EDSOLS & TEKCOGENT, Bengaluru



Organized by
**School of Computer Science Engineering
& Information Systems(SCORE),
Vellore Institute of Technology,
Vellore**

VIT – A place to learn; A chance to grow

ABOUT VIT

Vellore Institute of Technology was established under Section 3 of the University Grants Commission (UGC) Act, 1956, and was founded in 1984 as Vellore Engineering College. The Union Ministry of Human Resources Development conferred University status on Vellore Engineering College in 2001. The University is headed by its founder and Chancellor, Dr. G. Viswanathan, a former Parliamentarian and Minister, Tamil Nadu Government. The institution persistently seeks and adopts innovative methods to improve the quality of higher education consistently. The campus has a cosmopolitan atmosphere with students from all corners of the globe. Experienced and learned teachers are strongly encouraged to nurture the students. The diversity of faculty members and their unrelenting focus on teaching and research enable to realise the high requirements of modern-day teaching-learning process. VIT has established and sustains a strong support structure for the successful progression of students. VIT is committed towards its vision of "Transforming life through excellence in education and research" and adopts professional approach in its governance.

RANKING & ACCREDITATION

- VIT has emerged as one of the best institutes in India and is aspiring to become a global leader. Quality in teaching-learning, research and innovation make VIT unique.
- Ranked among the top 701-800 Universities of the world and one among the top 5-6 Institutions in India (Shanghai ARWU Ranking 2023).
- The 10th best University, the 13th best Research institution and the 11th best Engineering Institution in India (NIRF Ranking, Govt. of India 2024)
- The Engineering and Technology subject areas of VIT are the 212th best in the World and the 9th best in India as per QS World University Rankings by Subject 2024.
- NAAC Accreditation with A++ grade in the 4th cycle
- Ranked within the top 163 Universities in Asia (QS Asia University Rankings 2024)

ABOUT SCORE

The School of Computer Science Engineering and Information Systems (SCORE) emphasizes the fields of Information Technology, Software Engineering and Domain Specific Applications to facilitate the evolution of skills in students to help them to attain a higher degree of knowledge, global competency, and excellence, for the betterment of the society. According to the subject positioning by QS, Computer Science and Information systems secured 136th rank in the globe. This school offers Bachelor of Technology, Master of Technology, Bachelor of Science(Computer Science), Bachelor of Computer Applications, Master of Computer Applications and Doctorate of Philosophy programmes. Major areas of research include Artificial Intelligence, Big Data, Cloud Computing, Data Mining, Image Processing, Information and Cyber Security, Intelligence Systems, IoT, Machine Learning and Software Engineering. The school's focus is on holistic learning to help the students to make significant contributions to the industry and to serve society at large. The school has committed faculty members, apart from many visiting professors, and working professionals from the industry and R&D organizations. The faculty members are highly motivated to do ground-breaking research and excel in teaching and learning processes. Students are provided opportunities to apply the acquired knowledge in solving real-world problems and gaining research experience. The placement record of the school is always remarkable. The school has strong linkages with leading IT and research organizations with industry-supported laboratories. A selection of professors of the school are among the Top 2% Scientists in the world according to the study conducted by the Stanford University, USA in 2024.

ABOUT THE WORKSHOP

Topics Covered

- Transfer Learning
- Pre-Trained Transformer Models
- NVIDIA TAO
- NVIDIA NGC - GPU Cloud
- NVInfer Inference Engine
- NVIDIA DeepStream Framework

Course Schedule

Day	Content	Learning Environment
DAY 1 SESSION 1	<ul style="list-style-type: none">• NVIDIA DLI Account Creation• Course Enrollment• CPU vs GPU vs TPU• Pre Trained Models (Development & Inference)	<ul style="list-style-type: none">• NVIDIA DLI• Google Colab
DAY 1 SESSION 2	<ul style="list-style-type: none">• Transfer Learning	<ul style="list-style-type: none">• Google Colab
DAY 1 SESSION 3	<ul style="list-style-type: none">• NVIDIA TAO• NVIDIA NGC	<ul style="list-style-type: none">• NVIDIA DLI Platforms
DAY 2 SESSION 1	<ul style="list-style-type: none">• Building a Video AI Application using Deep Stream	
DAY 2 SESSION 2	<ul style="list-style-type: none">• Multi Stream & Multi Deep Neural Network Using Deep Stream	
DAY 2 SESSION 3	<ul style="list-style-type: none">• Assessment & Certification	

Prerequisites

- Competency in Python 3 Programming Language

RESOURCE PERSON

Dr. P. Purusothaman
Head -R&D- Product Development
Edsols Innovation Pvt Ltd &
TEKCOGENT Solution Pvt. Lltd.
Bengaluru.

CHIEF PATRON

Dr. G. Viswanathan, Chancellor

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CO-PATRONS

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Dr.Partha Sharathi Mallick, Pro-Vice Chancellor
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REGISTRATION DETAILS

Internal Participants – Rs.1000+18%GST
(Faculty /Students/Research Scholars)

External Participants – Rs.1500*+18%GST
(Faculty/Students/Research Scholars/Industry People)
*Includes Accommodation in Hostel excluding meals.

**** Maximum Participants(FCFS Basis) - 60**

*****NVIDIA Certification on “Building Real Time Video AI Applications” will be provided at free of cost for all participants after successful completion of examination during the workshop.**

Fee payment Link:

<https://events.vit.ac.in/>

Follow the steps:

Click Login at the top → Existing User login with your credentials/New user register your credentials → Get Confirmation Mail → Login →Select NVIDIA Certified Building Real-Time Video AI Applications → Register → Proceed Payment

(After fee payment, the participants have to take Fee Receipt number and downloaded receipt to fill the registration form given below:)

Registration link:

<https://forms.gle/JzM7RJmswFMKZrC68>

DATES TO REMEMBER

Last date for Registration:23rd October 2025

Registration confirmation:24th October 2025