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NVIDIA
Hands-on Hardware Edge Computing Workshop
on
"Building Autonomous Vehicle using NVIDIA Jetbot"

16th&17th February 2026

Organized by
School of Computer Science and Engineering (SCOPE)
Vellore Institute of Technology
Vellore – 632 014

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Coordinators:
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Department of IoT
Dr. M. Bhuvaneswari
Associate Professor
Department of IoT
SCOPE

Topics to be Covered

- **Transfer Learning, Pre-Trained Model**
- **NVIDIA TAO, NVIDIA NGC**
- **NV Infer Inference Engine**
- **NVIDIA Deep Stream Framework**

Outcomes of the Workshop

- **Construct a streaming analytics pipeline with hardware-accelerated components**
- **Deploy a turnkey video AI application with NVIDIA's pre-trained inference models.**
- **Apply transfer learning to develop a custom video AI model that is configured for optimal performance.**
- **Measure and improve video AI application performance.**

Training on NVIDIA Hardware Kits:
- **NVIDIA Jetbot with NVIDIA Jetson Nano**

Target Audience:
- **B.Tech and M.Tech students of SCOPE**

Registration:
The participants are requested to register for the workshop through the following link
https://events.vit.ac.in/

Registration fee (Including GST):
- **UG students : Rs. 1030/-**
Last date for registration:11.02.2026

ABOUT THE VIT

VIT was established with the aim of providing quality higher education on par with international standards. It persistently seeks and adopts innovative methods to improve the quality of higher education on a consistent basis. 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 global standards set at VIT in the field of teaching and research spur us on in our relentless pursuit of excellence. Our Memoranda of Understanding with various international universities are our major strength.

ABOUT THE SCOPE

The school has one of the best infrastructures including domain-specific labs associated with the technical departments. The main aim is to produce computing graduates with potential, to design and develop systems involving the integration of software and hardware devices, employ innovative approaches in programming and problem solving, and create large scale software systems. With an objective of developing core competence in the subject matter specializations and special interest groups for learning newer technologies.

The school has formed the following technical departments:

- Department of Analytics
- Department of Computational Intelligence
- Department of Database Systems
- Department of Software Systems
- Department of Information Security
- Department of IoT
- Department of Quantum AI

ABOUT THE WORKSHOP

This hands-on workshop is designed to introduce participants to edge computing, AI, and robotics through practical implementation using the NVIDIA JetBot platform. The workshop provides a learning experience where participants build, program, and deploy an autonomous vehicle powered by NVIDIA's AI technologies.

Participants will gain a strong foundation in computer vision, deep learning, and real-time inference at the edge, while working directly with NVIDIA Jetson hardware. The workshop emphasizes practical learning by combining hardware assembly, software setup, model training, and deployment.

This workshop bridges the gap between theory and real-world AI applications, empowering participants with industry-relevant skills in Edge AI and Autonomous Systems

Speakers

**Dr. P. Purusothaman
Head - R&D Product Development
Teckogen Pvt Ltd
Chennai
Mr. V. Karthick
Head - Operations
Viccint Tehnolgies Pvt Ltd
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