DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

REPORT - WORKSHOP ON "SECURE GENERATIVE AI WITH PYTHON"

Title: WORKSHOP ON "SECURE GENERATIVE AI WITH PYTHON"

Date: 27th February 2026

Venue: Intel Lab, AVIT, Chennai Campus

Organized By: Department of Computer Science and Engineering & AVIT Cyfence Club Associate with IIC, AVIT

Category: As part of Silver Jubilee year Celebrations and Cyfence club activities.

Introduction

The Department of Computer Science and Engineering, along with AVIT Cyfence Club in association with IIC, AVIT, organized a one-day intensive workshop on "Secure Generative AI with Python" as part of the VMRF Silver Jubilee Year celebrations.

The workshop aimed to provide students with a strong foundation in Artificial Intelligence (AI), Machine Learning (ML), and Generative AI (GenAI), along with hands-on exposure to implementing GenAI applications using Python.

With the rapid growth of AI-driven applications across industries, ensuring secure development and ethical usage of Generative AI models has become crucial. The workshop addressed both the technical and security aspects of GenAI systems.

Mr. Sivaprasath Munusamy
Learning & Development Manager
N2 Services Pvt. Ltd., Chennai
Mr. Sivaprasath Munusamy delivered an insightful and industry-oriented session combining theoretical foundations and practical implementation of Generative AI using Python.

Objective of the Workshop

- To introduce students to the fundamentals of Artificial Intelligence and Machine Learning.
- To provide conceptual understanding of Generative AI models and their applications.

- To demonstrate implementation of Generative AI techniques using Python.
- To create awareness about security challenges and responsible AI practices in GenAI systems.
- To enhance practical skills through hands-on coding sessions in a real-time lab environment.

Ket highlights of the workshop

- The resource person delivered an in-depth session on the fundamentals of AI and Machine Learning, explaining supervised, unsupervised, and reinforcement learning concepts.
- A detailed discussion on Generative AI (GenAI), including its architecture, working principles, and real-world use cases.
- Demonstration of Generative AI implementation using Python, covering libraries and tools used for AI model development.
- A hands-on practical session where participants implemented GenAI programs in Python under expert guidance.
- Interactive Q&A session addressing students' doubts on AI security, ethical AI, and industry trends.

Outcomes

PO1 – Engineering Knowledge:

Students applied fundamental knowledge of computing and mathematics to understand AI and ML concepts.

PO2 – Problem Analysis:

Participants analyzed real-world AI problems and understood how Generative AI can provide intelligent solutions.

PO3 – Design/Development of Solutions:

Students developed simple Generative AI applications using Python during the hands-on session.

PO5 – Modern Tool Usage:

Exposure to Python-based AI tools and libraries enhanced students' ability to use modern computing tools effectively.

PO8 – Ethics:

The session emphasized responsible AI usage, data privacy, and security considerations in Generative AI systems.

PO12 – Life-long Learning:

The workshop encouraged students to continuously update their knowledge in emerging AI technologies.

Key takeaways

- Clear understanding of AI, ML, and Generative AI fundamentals.
- Practical knowledge of implementing GenAI models using Python.
- Awareness of secure AI development practices and ethical AI considerations.
- Exposure to industry expectations and real-time AI applications.
- Enhanced confidence in developing AI-based applications.

AVIT
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY
Vinayaka Missions Chennai Campus

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(Ministry of HRD Initiative)

Cordially invites you all to the workshop on

SECURE GENERATIVE AI WITH PYTHON

A Part of VMRF – DU Silver Jubilee Year Event

Resource Person

Mr. Sivaprasath Munusamy
Learning & Development Manager
N2 Services Pvt Ltd, Chennai

27 February 2026
09:30 AM to 03:00 PM

INTEL Lab, AVIT

Organized by
Department of Computer Science and Engineering & AVIT Cyfence Club
in associate with Institution's Innovation Council (IIC)

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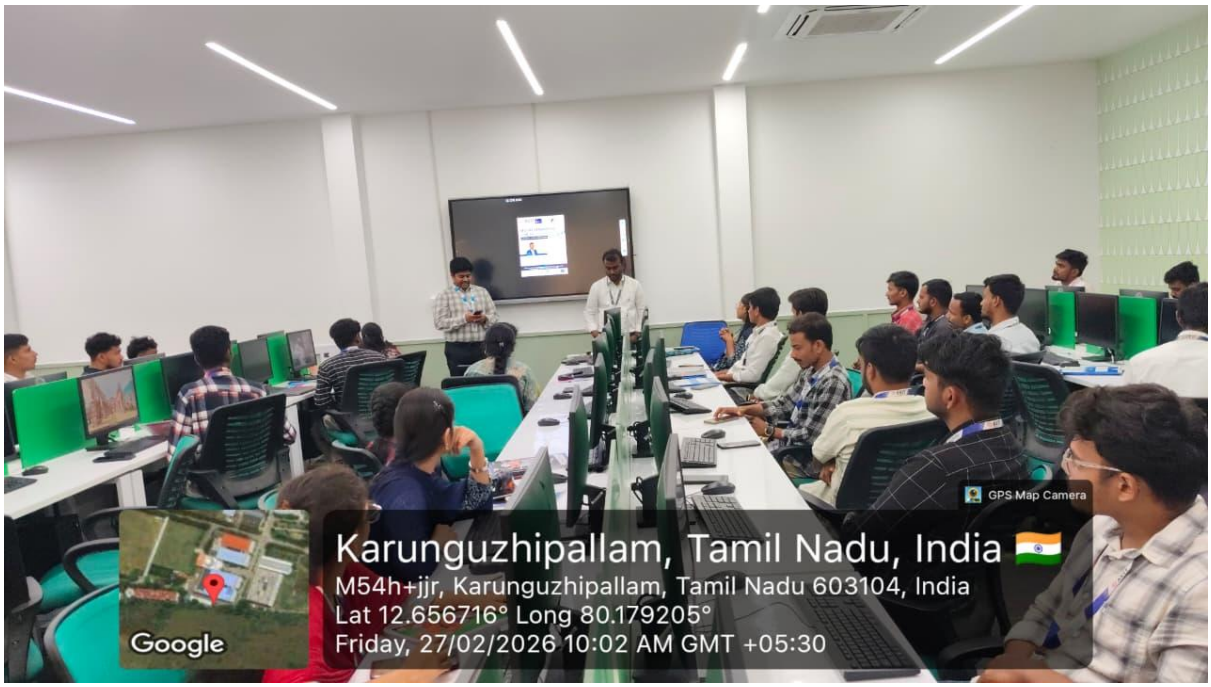
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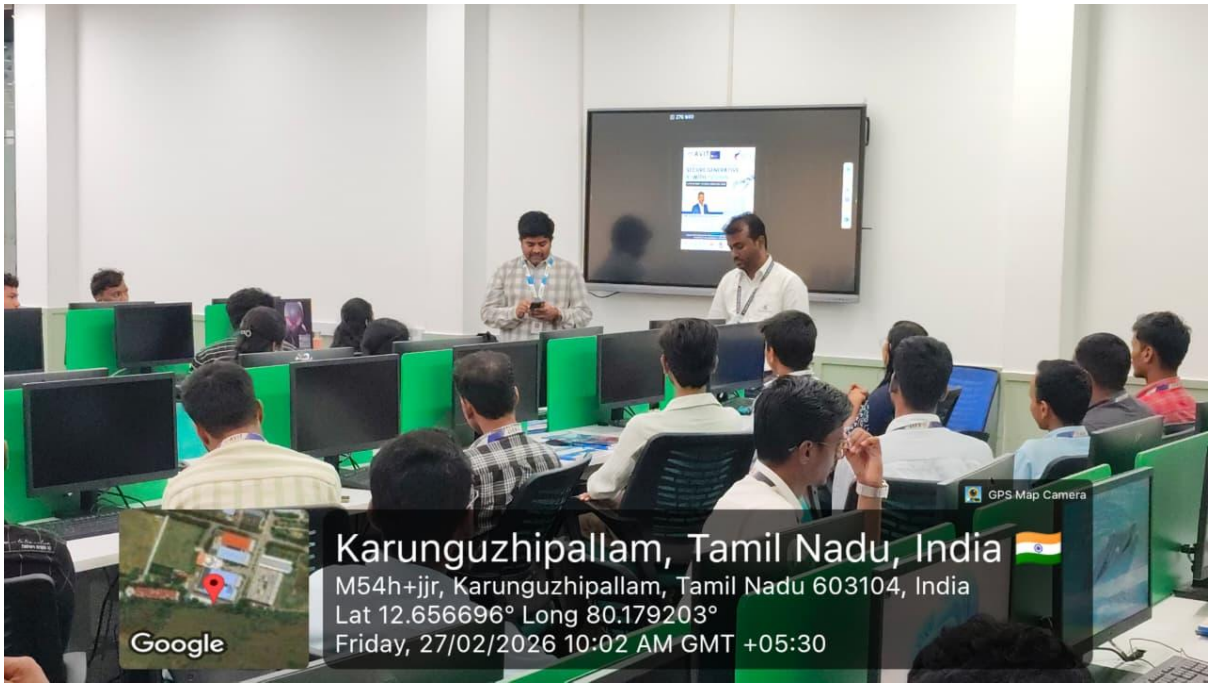
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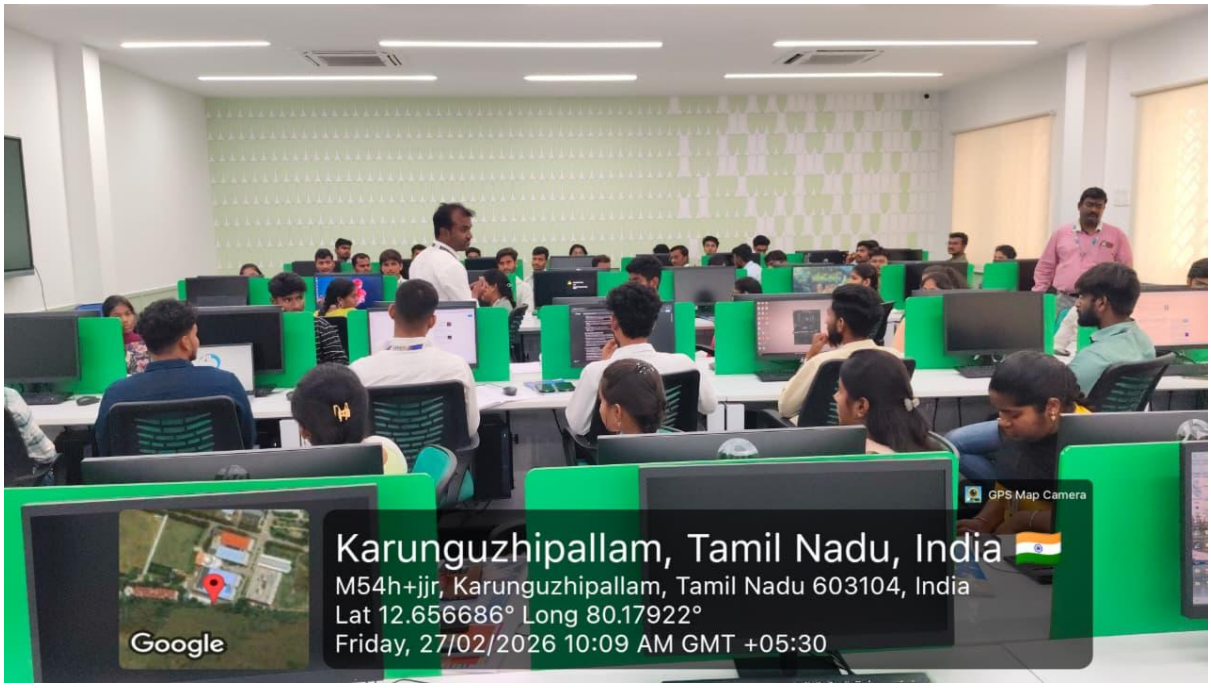
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