

Events

STTP- “RECENT ADVANCEMENTS IN ARTIFICIAL INTELLIGENCE AND ROBOTICS (RA-AIR-24)”

- This event was organized by the Department of Computer Science and Engineering and Artificial Intelligence and technically sponsored by Computational Intelligence and Smart Motion Robotics Group at SVNIT Surat from 08-13 July 2024. The event aimed to delve into the transformative impacts of AI and robotics across various industries and foster practical learning in cutting-edge technologies. In which number of participants was around 45.
- The STTP covered a comprehensive range of topics including:
 - Introduction to Artificial Intelligence and Deep Learning
 - Advances in Robotics, including navigation and path planning
 - Deep Generative Adversarial Networks (GANs) and Graph Neural Networks
 - Applications of AI in Computer Vision and Robotics
 - Hands-on sessions utilizing Python, PyTorch, and Keras for practical implementation



❑ STTP- “Ethical AI/ML for Innovation: Exploring Technologies and Applications”

- Dr. Ritu Tiwari, Dr. Nitesh A. Funde, Dr. Rohit Kumar have conducted STTP on Ethical AI/ML for Innovations: Exploring Technologies and Applications from 24/02/2025 to 07/03/2025. Many Students and Faculty have participated in STTP.
- It has covered topics such as Distributed Anomaly Detection using Federated Learning, Generative AI, Group Signature-based Privacy Preservation in Federated Learning, Robotics Applications and many more.



❑ **STTP- “Multi-Modal Generative AI”**

- STTP on “Multi-Modal Generative AI” was conducted by Dr. Pruthwik Mishra, Dr. Rahul Dixit, and Prof. Ritu Tiwari from 16/12/2024 to 25/12/2024. More than 35 people have participated including Students, Faculty and Research Scholars.
- Topics such as Addressing Hallucination in Large Language Models, Privacy Preserved Generative Networks, AI:LLMs and beyond, Foundation Models in NLP, AI & CV for Self Driving Cars, Speech to Speech Machine Translation, Word Problem Solving using LLMs, and many more were covered.
- Speakers from University of Bonn, Institute for Infocomm Research Singapore, TCS Research, IIIT-Hyderabad, and IIT-BBS have been invited for the talk.

❑ **STTP- “Machine Learning and Its Applications”**

- STTP on “Machine Learning and Its Applications” was conducted by Dr. Tanmoy Hazra, Dr. Praveen Kumar Chandaliya, and Prof. Ritu Tiwari from 02/12/2024 to 13/12/2024. More than 30 people have participated including Students, Faculty and Research Scholars.
- Topics such as Supervised learning, Classification and Regression, Linear Regression, Logistic regression, Advanced topics: GenAI, XAI, LLM, Speech-based Health Analysis and many more were covered.



❑ **STTP- “Recent Trends and Practices in AI”**

- STTP on “Recent Trends and Practices in AI” was conducted by Dr. Tanmoy Hazra, Dr. Praveen Kumar Chandaliya, Dr. Nitesh Funde and Prof. Ritu Tiwari from 07/07/2025 to 11/07/2025. More than 35 people have participated including Students, Faculty and Research Scholars.
- Topics such as Deep learning, Federated Learning, GAN, Transformer, Explainable AI and many more were covered.

