



NEW HORIZON COLLEGE OF ENGINEERING

DEPARTMENT OF CSE (DATA SCIENCE)

Event: **EXPERT TALK** on “**Biometric Security Reimagined with Agentic AI**”

Venue: C217

Time: 10:00 AM - 12:00 PM



Department of Computer Science and Engineering (Data Science)

Expert Talk

Biometric Security Reimagined with Agentic AI

- 7th May 2026
- 10:00 AM - 12:00 PM
- Room C-217
- 6th Semester Students

Coordinator
Prof. Swati Sehgal
Assistant Professor

Convenor
Dr. B Swathi
HoD-CSE (DS)

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Mr. Ajinkya Lohakare

founder & CTO, Ditto Security

AI

The Department of Computer Science and Engineering (Data Science), New Horizon College of Engineering, organized an insightful Expert Talk titled “**Biometric Security Reimagined with Agentic AI**” on **7th May 2026** from **10:00 AM to 12:00 PM** at **Room C-217** for the **6th Semester students**. The session was conducted by **Mr. Ajinkya Lohakare**, Founder & Chief Technology Officer (CTO) of Ditto Security, who is a renowned cybersecurity consultant, ethical hacker, AI strategist, and TEDx speaker.

The objective of the expert talk was to provide students with knowledge about the evolution of biometric security systems and the integration of Agentic Artificial Intelligence in cybersecurity and automation systems. The session focused on how AI-powered intelligent agents are transforming modern security frameworks by improving authentication accuracy, workflow automation, threat detection, and real-time decision-making processes.

The session began with an introduction to biometric security and its growing importance in the digital era. Mr. Ajinkya Lohakare explained various biometric authentication methods such as fingerprint recognition, facial recognition, iris scanning, voice authentication, and behavioral biometrics. He discussed how biometric systems are increasingly being used in banking, healthcare, smartphones, enterprise security systems, and digital identity verification due to their reliability and convenience.

The speaker then introduced the concept of **Agentic AI**, explaining how AI agents can independently analyze situations, make decisions, learn from patterns, and execute tasks with minimal human intervention. He highlighted the difference between traditional AI systems and Agentic AI systems by explaining how modern AI agents can autonomously perform operations, interact with tools, automate workflows, and continuously improve based on user interactions and contextual understanding.

One of the major highlights of the expert talk was the introduction to **n8n**, an open-source workflow automation platform. Mr. Ajinkya Lohakare demonstrated how n8n can be used to connect multiple applications, APIs, AI models, and services together to create automated workflows without extensive manual coding. Students were shown how automation pipelines can be built visually using nodes and integrations, enabling efficient task execution and communication between different systems.

The speaker explained how n8n can integrate with AI agents to build intelligent automation systems capable of performing tasks such as sending notifications, processing data, managing workflows, analyzing information, and triggering automated actions. He also discussed the growing importance of workflow automation tools in industries such as cybersecurity, DevOps, business intelligence, and AI-driven enterprise systems.





During the session, students were also introduced to **Google Colab** as a cloud-based platform for executing Python code and AI-related tasks. The speaker demonstrated how Google Colab can be used for machine learning experiments, automation scripts, cybersecurity projects, and AI model execution without requiring high-end local hardware. Students practically explored basic commands, executed scripts, and observed how collaborative cloud environments simplify AI and development workflows.

The expert also explained how platforms like Google Colab are widely used for rapid prototyping, AI experimentation, ethical hacking demonstrations, and collaborative development. He demonstrated GitHub repository cloning, package installations, script execution, and automation-related tasks using Python and shell commands within the Colab environment. This practical exposure helped students understand real-world development and testing workflows used in industry and research environments.

Another important aspect covered during the session was cybersecurity and ethical hacking. The speaker shared practical insights into how cyber attackers attempt to bypass authentication systems using phishing, spoofing, deepfakes, and identity theft techniques. He emphasized the importance of penetration testing, vulnerability assessment, and continuous monitoring to build secure digital ecosystems.

The session also explored the ethical and privacy-related challenges associated with biometric data collection and AI-driven systems. The speaker emphasized that organizations

must ensure secure storage of biometric information, implement strong encryption mechanisms, and comply with data privacy regulations to protect user information from misuse and cyber threats.

In addition, the speaker discussed career opportunities in cybersecurity, artificial intelligence, workflow automation, ethical hacking, and AI engineering. He encouraged students to develop strong technical skills in Python programming, automation tools, AI frameworks, cloud platforms, and cybersecurity technologies to meet the increasing industry demand for skilled professionals.

Throughout the expert talk, students actively participated by asking questions regarding AI agents, automation systems, cybersecurity practices, workflow orchestration, and future trends in artificial intelligence. The interactive and practical nature of the session helped students gain hands-on exposure to emerging technologies and understand their real-world applications.

Overall, the expert talk proved to be highly informative and beneficial for the students. It provided valuable insights into biometric security, Agentic AI, workflow automation using n8n, and practical AI development using Google Colab. The session motivated students to explore emerging technologies in artificial intelligence, cybersecurity, and automation while encouraging them to build innovative and secure intelligent systems for the future.

Faculty Coordinator

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