NEW HORIZON COLLEGE OF ENGINEERING
Autonomous College, Affiliated to VTU | Approved by AICTE New Delhi & UGC
Accredited by NAAC with 'A' Grade & Accredited by NBA

DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

Tel: 080 66297777, Extn: 2016 hod_dca@newhorizonindia.edu

REPORT ID: NHCE/MCA/RPT/GUEST TALK/2026-27/002
TITLE OF THE REPORT: GUEST TALK ON AI-POWERED NETWORK SECURITY AND INTRUSION DETECTION
DEPARTMENT: MCA
DATE: 14.11.2026
TIME: 11:00 AM TO 01:00 PM
VENUE: B-307, NEW HORIZON COLLEGE OF ENGINEERING
REPORT CATEGORY: GUEST TALK
RESOURCE PERSON: Mr. SANJEEV HANCHINAL,
AI ENGINEER, CONNEQTION GROUP
PREPARED BY: SATHYA J
APPROVED BY: Dr. V. ASHA

1. OBJECTIVE

The primary objective of the guest talk titled **"AI-Powered Network Security and Intrusion Detection"** was to provide MCA students with industry-oriented knowledge of how Artificial Intelligence is applied to secure computer networks and detect intrusions, and to introduce them to the emerging role of AI in modern cybersecurity.

The specific objectives were:

- To introduce students to the fundamental concepts of network security and the common threats faced by modern networks.
- To explain the concept of intrusion detection and how intrusion detection systems (IDS) monitor and protect networks.
- To familiarize students with how Artificial Intelligence and Machine Learning techniques are used to detect anomalies and malicious activity.
- To explain how AI-based detection differs from traditional signature-based and rule-based security approaches.
- To provide insights into the use of AI-driven security in real-world environments such as enterprise networks, banking, cloud, and IoT.
- To bridge the gap between academic concepts in networks and AI and current industry practices.
- To create awareness of career opportunities in AI engineering, cybersecurity, and related fields.
- To encourage students to interact with an industry professional and clarify their doubts.

2. CONTEXT

As part of the Department of MCA's continuous efforts to strengthen industry–academia interaction and enhance students' technical competence, a guest talk titled **"AI-Powered Network Security and Intrusion Detection"** was organized on 14th November 2026 from 11:00 AM to 01:00 PM at B-307, New Horizon College of Engineering.

The session was delivered by **Mr. Sanjeev Hanchinal**, AI Engineer at Conneqtion Group, who shared his industry experience on how AI techniques are being used to strengthen network security and detect intrusions in real time.

Computer Networks and Artificial Intelligence form important components of the MCA curriculum. While students learn the fundamentals of networking and security in the classroom, the growing scale and sophistication of cyber threats increasingly demand intelligent, automated defence mechanisms. The guest talk was planned to expose students to these real-world requirements and to the AI-based approaches used to address them.

The programme was coordinated by Sathya J, Faculty Coordinator, Department of MCA, under the guidance of Dr. V. Asha, Professor and Head, Department of MCA, with the support of Dr. R. J. Anandhi, Vice Principal – Academics, and Dr. Manjunatha, Principal.

3. DATA SOURCE

The following records and evidence were used to document the event:

- Event approval.
- Event poster.
- Student attendance sheet.
- Resource person profile.
- Photographs taken during the session.
- Session notes and presentation content shared by the resource person.
- Feedback collected from the participating students.
- Observations of the faculty coordinator regarding student participation and interaction.

4. PARTICIPANT DETAILS

Target Participants

Students of the Master of Computer Applications (MCA) programme, I Semester – B Section, New Horizon College of Engineering.

Participant Summary

Category	Count
MCA Students	38
Faculty Members	1
Resource Person	1
Total Participants	40

Resource Person

Mr. Sanjeev Hanchinal – AI Engineer, Conneqtion Group.

Departments Involved

- Department of Master of Computer Applications (MCA), New Horizon College of Engineering.

Faculty Involvement

Sathya J, Faculty Coordinator, Department of MCA, coordinated the event, and Dr. V. Asha, Professor and Head, Department of MCA, served as the convenor.

5. EXECUTION SUMMARY

The guest talk was conducted on 14th November 2026 from 11:00 AM to 01:00 PM at B-307, with the active participation of MCA students and faculty members.

The session was carried out through the following sequence:

1. **Welcome and Introduction:** The session began with a welcome address and a formal introduction of the resource person, Mr. Sanjeev Hanchinal, to the students.
2. **Introduction to Network Security:** The resource person explained the basics of network security, common cyber threats and attack types, and why protecting networks is critical for modern organizations.
3. **Intrusion Detection Concepts:** Concepts such as intrusion detection systems, signature-based versus anomaly-based detection, false positives and false negatives, and network monitoring were discussed with simple examples.
4. **AI and Machine Learning in Security:** Students were introduced to how AI and Machine Learning techniques learn normal network behaviour, detect anomalies, and identify previously unseen threats.
5. **Industry Perspective:** Drawing on his experience as an AI Engineer, the speaker explained how AI-powered security solutions are built, deployed, and used in enterprise environments.
6. **Real-World Applications:** Practical examples of AI-driven threat detection, intrusion prevention, and security monitoring in domains such as banking, cloud, enterprise networks, and IoT were discussed.
7. **Career Guidance:** The resource person shared insights on industry expectations, skills required for AI and cybersecurity roles, and career opportunities in these fields.
8. **Interactive Q&A Session:** Students actively interacted with the speaker and clarified their doubts on AI, network security, and career pathways.
9. **Vote of Thanks:** The session concluded with a vote of thanks and a token of appreciation presented to the resource person.

The students listened attentively throughout the session and participated actively in the discussion. The talk provided them with a clear understanding of how classroom concepts in networks and AI are applied to real-world network security.

6. ANALYSIS

The guest talk on "AI-Powered Network Security and Intrusion Detection" received a positive response from the participating MCA students. The session connected theoretical concepts of networking, security, and Artificial Intelligence with real-world industrial applications, enabling students to appreciate how modern organizations detect and respond to cyber threats intelligently.

The industry perspective shared by the resource person was particularly valuable, as it gave students exposure to how AI-based security systems are designed and used in practice. The real-world examples helped students relate the concepts to the digital services they use in daily life.

Feedback was collected from the participating students to assess the relevance of the content, the clarity of delivery, the level of understanding gained, and suggestions for future sessions. The consolidated feedback analysis is attached as an annexure.

Feedback Analysis Summary

Parameter	Observation
Student Participation	All students responded to the feedback form. Most rated the resource person's handling of questions and doubts as Excellent, which reflects active participation in the interactive Q&A session.
Relevance of Content	Most students rated the topic as Excellent and the rest as Good. No student rated it Fair, so the topic was relevant to their academic learning.
Quality of Delivery	The majority rated the communication of technical concepts as Excellent and the remaining students as Good. The resource person explained complex concepts clearly.
Learning Outcomes	Most students rated the session as Excellent or Good for giving a clear understanding of the role of AI in network security. Students understood how AI supports threat and intrusion detection.
Industry Exposure	The session gave students insights into AI-driven security practices in industry, as reflected in the high ratings for relevance and delivery.
Overall Impact	The guest talk was rated Excellent by a majority of students, with most of the others rating it Good. The session was well received and enhanced students' technical awareness.

7. OUTCOMES

The key findings and outcomes of the guest talk were:

- MCA students gained a clear understanding of the fundamentals of network security and common cyber threats.
- Students understood the concept of intrusion detection and the difference between traditional and AI-based detection approaches.
- Students were introduced to the use of Artificial Intelligence and Machine Learning for anomaly detection and threat identification.
- Students gained exposure to how AI-powered security solutions are applied in enterprise and industry environments.
- Practical examples helped students relate networking and AI concepts to real-world applications.
- Students became aware of the skills required and the career opportunities available in AI engineering and cybersecurity.
- The interactive session improved students' confidence in engaging with industry professionals.
- The programme strengthened industry–academia interaction for the Department of MCA.

8. EVIDENCE ATTACHED

Supporting Evidence

The following evidence is attached:

- Event approval
- Event poster.
- Student attendance sheet.
- Resource person profile.
- Photographs of the session.
- Student feedback analysis.
- Final guest talk report.

Evidence Reference IDs

1. Annexure I – Event Approval
2. Annexure II – Event Poster
3. Annexure III – Student Attendance Sheet
4. Annexure IV – Photographic Evidence of the Guest Talk
5. Annexure V – Student Feedback Analysis

9. CHALLENGES

The following challenges were encountered during the planning and execution of the guest talk:

- **Scheduling with an Industry Professional:** The session had to be scheduled around the professional commitments of the resource person, requiring advance coordination.

Despite these challenges, the session was conducted successfully with good participation and a positive response from the students.

10. CONCLUSION

The guest talk on "AI-Powered Network Security and Intrusion Detection", organized by the Department of MCA, was an informative and successful session that enhanced students' understanding of the role of Artificial Intelligence in securing modern networks.

Mr. Sanjeev Hanchinal, AI Engineer, Conneqtion Group, effectively bridged the gap between classroom concepts and industry practice by explaining network security, intrusion detection, and AI-based threat detection with practical examples.

The active participation of students and their interaction with the resource person reflected the value of such industry-oriented sessions. Overall, the programme reinforced the Department of MCA's commitment to industry–academia collaboration and holistic student development. Similar guest talks may be organized in the future to keep students updated on emerging technologies.

11. ANNEXURES

The following annexures are included:

1. Annexure I – Event Approval
2. Annexure II – Event Poster
3. Annexure III – Student Attendance Sheet
4. Annexure IV – Photographic Evidence of the Guest Talk
5. Annexure V – Student Feedback Analysis

SIGNATURES

Prepared By:

Sathya J

Faculty Coordinator, Dept. of MCA

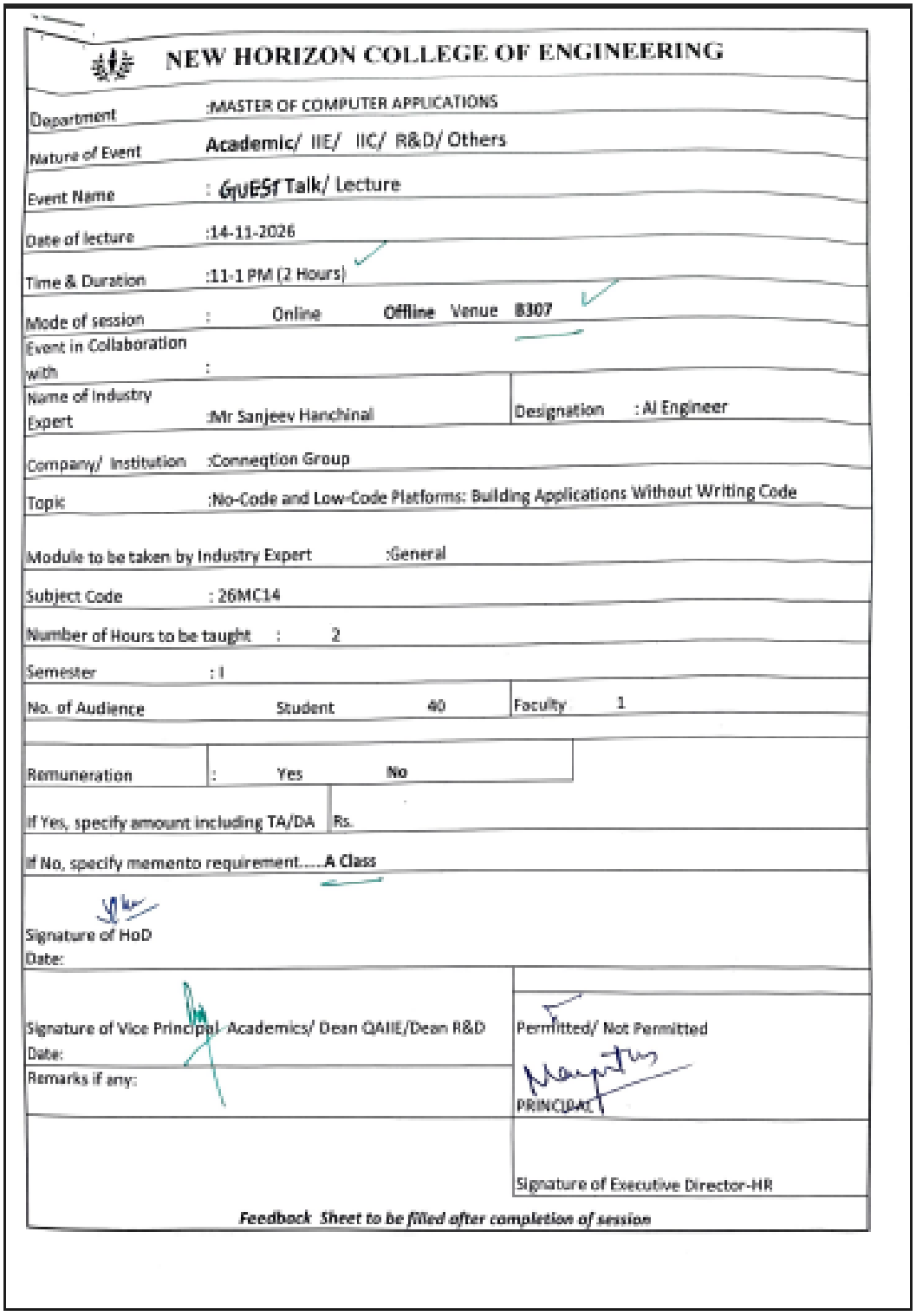
Date: 16/11/2026

Reviewed and Approved by:

Dr. V. Asha

Professor and HoD, Dept. of MCA

Annexure II – Event Approval



NEW HORIZON COLLEGE OF ENGINEERING

Department	:MASTER OF COMPUTER APPLICATIONS
Nature of Event	Academic/ IIE/ IIC/ R&D/ Others
Event Name	: GuEST Talk/ Lecture
Date of lecture	:14-11-2026
Time & Duration	:11-1 PM (2 Hours)
Mode of session	: Online Offline Venue B307
Event in Collaboration with	:
Name of Industry Expert	:Mr Sanjeev Hanchinal / Designation : AI Engineer
Company/ Institution	:Conneqtion Group
Topic	:No-Code and Low-Code Platforms: Building Applications Without Writing Code
Module to be taken by Industry Expert	:General
Subject Code	: 26MC14
Number of Hours to be taught	: 2
Semester	: I
No. of Audience	Student 40 / Faculty 1
Remuneration	: Yes No
If Yes, specify amount including TA/DA	Rs.
If No, specify memento requirement	.....A Class

Signature of HoD
Date:

Signature of Vice Principal- Academics/ Dean QAIIE/Dean R&D
Date:
Remarks if any:

Permitted/ Not Permitted
PRINCIPAL

Signature of Executive Director-HR

Feedback Sheet to be filled after completion of session

Outlook

Re: Invitation to Deliver an Expert Talk for I Sem MCA Students

From Sanjeev Hanchinal <sanjeev.hanchinal1@gmail.com>
Date Tue 10/11/2026 20:27
To Sathya J <sathya.j_mca_nhce@newhorizonindia.edu>

I accept the invitation. Thank you very much for the invitation

Regards,
Sanjeev Hanchinal

On Tue, 10 Nov, 2026, 7:19 pm Sathya J, <sathya.j_mca_nhce@newhorizonindia.edu> wrote:

Dear Mr. Sanjeev Hanchinal,

Greetings from the Department of Master of Computer Applications, NHCE.

We are pleased to invite you, as an industry expert from Conneqtion Group, to deliver an Expert Talk for our first-semester MCA students. Your experience as an AI Engineer will be of great value to our students, and we would be honoured to host you.

The details of the event are as follows:

Event: Expert Talk / Lecture
Topic: AI-Powered Network Security and Intrusion Detection
Date: 14 November 2026
Time: 11:00 AM to 1:00 PM (2 hours)
Mode: Offline
Venue: Room B307, NHCE

We request you to cover the fundamentals Common Cyberattacks, Basics of Intrusion Detection Systems (IDS), Role of AI in Network Security, AI-Powered Intrusion Detection, Real-World Applications and Tools, and career opportunities for MCA graduates.

Kindly confirm your acceptance by replying to this email at your earliest convenience.

We look forward to welcoming you to our campus.

With warm regards,

New Horizon College of Engineering (NHCE) Bengaluru,

J SATHYA
Sr. Asst. Professor
New Horizon College of Engineering
E: sathya.j_mca_nhce@newhorizonindia.edu
P: 91-80-66297777
M: 91- 8056463093
W: www.newhorizonindia.edu

Sanjeev Hanchinal

AI Engineer | Agentic AI Systems | RAG & LLM Applications

Bengaluru, India · open to relocation/remote | sanjeev.hanchinal1@gmail.com | +91-8088589135 | linkedin.com/in/work-with-sanjeev

SUMMARY

AI Engineer building production LLM agents, RAG systems and document AI for enterprise clients in the UAE, Qatar and Singapore. Shipped **3 multi-agent HR applications** used daily by 300–500 employees, a **RAG + SQL agent product sold to an external client**, and multilingual document pipelines at **97% extraction accuracy**, with tool calling, guardrails, prompt-injection defenses and LLM-as-judge evaluation. Usually the sole or lead engineer from design to production; **1st and 2nd prize at ICON 2026** (30+ teams).

SKILLS

AI & Agents: AI agents, multi-agent orchestration, tool/function calling, MCP, RAG, text-to-SQL, prompt engineering, LLM evaluation (LLM-as-judge, RAG evaluation), fine-tuning, guardrails, prompt-injection defense, document AI / OCR
Models & APIs: Gemini 2.5 Pro, xAI Grok 4.7, GPT-OSS-120B, Cohere Embed 4, OpenAI API, Anthropic API, OCI Generative AI
Engineering: Python, FastAPI, LangChain, LangGraph, REST APIs, Java, SQL, PL/SQL, JavaScript, Docker, Git, CI/CD
Cloud & Platforms: OCI, Azure, Oracle AI Database (vector search), Oracle Fusion AI Agent Studio, Oracle APEX, ORDS, Oracle Integration Cloud, Oracle WebCenter Content, Fusion HCM

EXPERIENCE

Conneqtion Group, Bengaluru | **Consultant L1 (AI/ML)** (promoted Jul 2026) · Associate AI Consultant *Feb 2025 – Present*

Great Eastern (Singapore) · Agentic HR applications

- Built **3 production multi-agent HR applications** on Oracle Fusion AI Agent Studio (employee self-service, succession planning, end-to-end recruitment) with a supervisor agent, custom tools calling Fusion REST APIs and RAG over HR policy documents; used daily by **300–500 employees** with responses **under 5 seconds**.
- Cut HR support tickets by **95%**; the recruitment agent runs screening, shortlisting, interview scheduling, hiring-manager follow-ups and onboarding end to end, and the succession agent cut successor identification time by **80%**.
- Enforced per-employee data access and delivered the agents in Microsoft Teams via Azure; built and evaluated them almost single-handedly (2-person team).

Qserve · Internal RAG + SQL agent product *2nd Prize, ICON 2026*

- Built alone a **RAG chatbot and text-to-SQL agent** over **6,000+ documents (50+ GB)** using GPT-OSS-120B, Cohere Embed 4, Oracle AI Database vector search, FastAPI and APEX; answers in **under 6 seconds** for **500–600 employees**.
- Added read-only SQL with per-query validation, PII masking and role-based access control, plus an AI document manager with team spaces and folder permissions; productised and **sold to external client Best Food Company**.

Qatar Foundation · AI review of financial-aid applications

- Built alone a production document-AI pipeline (Gemini 2.5 Pro, OCR, FastAPI, Oracle Integration Cloud) extracting **70+ document types** in English, Arabic and Urdu at **97% accuracy**, validated against manual ground truth and LLM-as-judge comparison; **under 1 minute per document**, 5,000 documents per cycle.
- Generates a rated applicant profile with a reasoned recommendation for staff, replacing **1–2 hours of manual review per application** by a 20–50-person team; flags edited or forged documents and **prompt-injection text hidden in uploads**.

Etihad Engineering (UAE) · DocInsight: AI on Oracle WebCenter Content *1st Prize, ICON 2026*

- Led a 2-person build of DocInsight: a Java WCC component and FastAPI backend on OCI that classify work orders, invoices and contracts, extract fields, summarise and index them (xAI Grok 4.7 via OCI Generative AI, Cohere Embed 4, Oracle AI Database); **1,000 documents/day, 5,000 users**, in production 1+ year.
- Replaced searching 10+ levels of nested folders across **100K+ documents** with a chatbot that finds any file in **under 5 seconds**; added scheduled contract-expiry email alerts and APEX dashboards for P&L per aircraft, vendor value and engineer performance.
- Migrated **25 TB** of legacy files into WCC with a custom checksum-validated Python framework: **100% data integrity, zero downtime, 97% less manual effort**; delta migration cut incremental runs by 70%.

First Abu Dhabi Bank (UAE) · LLM goal analytics for HR leadership

- Built goal-alignment and SMART-goal dashboards (APEX, ORDS, FastAPI, xAI Grok 4.7) that pull Fusion HCM reports and use an LLM to score **200K+ goals across 50,000 employees** for alignment with manager goals and SMART quality; HR VPs use the interactive CEO-down org tree to find and follow up with misaligned employees.

EDUCATION

Master of Computer Applications (MCA), New Horizon College of Engineering, Bengaluru · CGPA 8.40/10 *2023 – 2025*
Bachelor of Computer Applications (BCA), Gogte College of Commerce, Belagavi · CGPA 8.58/10 *2019 – 2022*

AWARDS & CERTIFICATIONS

1st & 2nd Prize, ICON 2026, Conneqtion Group internal innovation competition (30+ teams): DocInsight (1st), Qserve (2nd)
4× Oracle certified (2025): OCI Generative AI Professional · Oracle AI Agent Studio · OCI Application Integration Professional · APEX Cloud Developer

Annexure II – Event Poster



Annexure III – Student Attendance Sheet

GUEST TALK – AI – Powered Network Security and Intrusion Detection

DATED: 14.11.2026

NEW HORIZON
COLLEGE OF ENGINEERING
New Horizon Knowledge Park, Ring Road, Marathalli
Autonomous College Permanently Affiliated to VTU Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

DEPARTMENT OF MCA

AY 2026-27

ATTENDANCE SHEET OF PARTICIPANTS

GUEST TALK

Topic: AI – Powered Network Security and Intrusion Detection

RESOURCE PERSON: Mr. Sanjeev Hanchinal

AI Engineer

Conneqtion Gruop

DATE: 14-11-2026

TIME: 11:00 am to 01:00 pm

PARTICIPANTS: STUDENTS SEM I (B section)

VENUE: B307

SERIAL NO	USN NO	NAME	SIGNATURES
01	26MCA173	Pooja Patil	[signature]
02	26MCA101-T	Mythoo. K.N	[signature]
03	26MCA035-T	Radhika. Harikantra	[signature]
04	26MCA106	Padma Priya M	[signature]
05	26MCA117	Manyo Nayak	[signature]
06	26MCA150-T	Muskan	[signature]
07	26MCA185-T	Padmashree.V	[signature]
08	26MCA178-T	Prajaktha. J.	[signature]
09	26MCA174-T	Prathibha S.	[signature]
10	26MCA169-T	Janani. A	[signature]
11	26MCA184-T	Lavanya. M	[signature]
12.	26MCA107.	Kavana. R	[signature]

GUEST TALK – AI – Powered Network Security and Intrusion Detection

DATED: 14.11.2026

SERIAL NO	USN NO	NAME	SIGNATURES
13	26MCA135-T	Madhushree. M	[illegible]
14	26MCA121-T	Nayashree KT	Nayashree KT
15	26MCA105-T	Meghana S	Meghana S
16	26MCA019-T	Sabana Patel	Sabana Patel
17	26MCA001-T	Namrata. K	[illegible]
18	26MCA132-T	Pabiri	[illegible]
19	26MCA122-T	Kavya	[illegible]
20	26MCA134-T	Nikhil	[illegible]
21	26MCA024-T	MD AKRAM	[illegible]
22	26MCA159-T	Kartik	[illegible]
23	26MCA123-T	PUNITH. K.N	[illegible]
24	26MCA128-T	[illegible]	[illegible]
25	26MCA014-T	Kasi Reddy Vishnu	[illegible]
26	26MCA103-T	Prajwal. S	[illegible]
27	26MCA009-T	Lokesh. T	T. Lokesh
28	26MCA041-T	N. Yashwanth Kumar	[illegible]
29	26MCA027-T	Mohan Raj. V	[illegible]
30	26MCA160-T	Ketan. Patil	[illegible]
31	26MCA146-T	Nithin S.V	Nithin S.V
32	26MCA012-T	Deevan	[illegible]
33	26MCA046-T	Pankaj. L	Pankaj. L
34	26MCA153-T	Narahari Madhav	[illegible]
35	26MCA179-T	Kiran	[illegible]
36	26MCA108-T	Prathmesh	[illegible]
37	26MCA155-T	Sucrith K.C	Sucrith

GUEST TALK - AI – Powered Network Security and Intrusion Detection

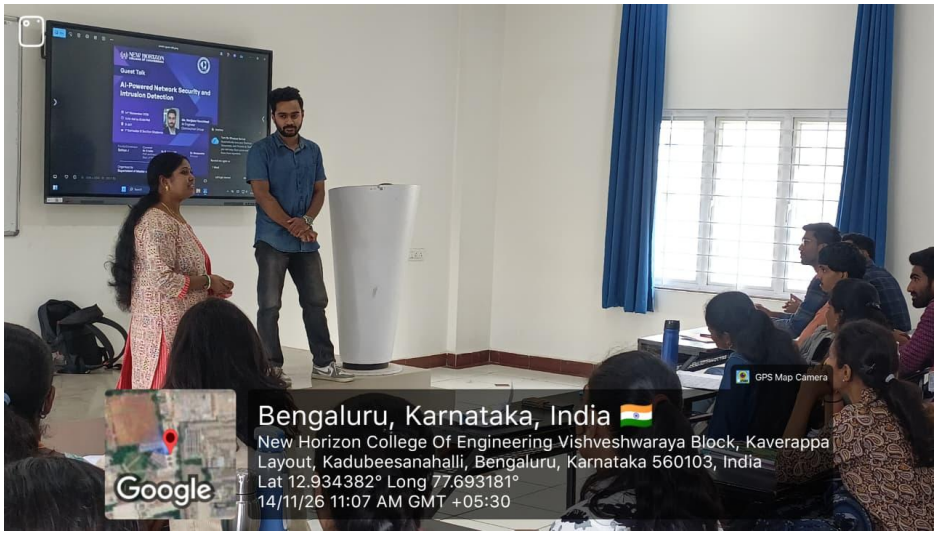
DATED: 14.11.2024

SERIAL NO	USN NO	NAME	SIGNATURES

EVENT COORDINATOR

HOD-MCA

Annexure IV – Photographic Evidence of the Guest Talk





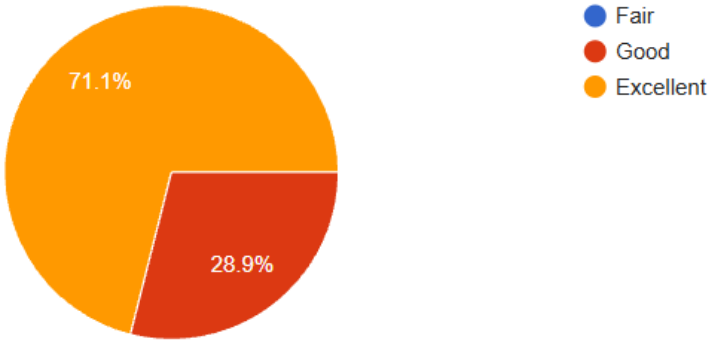


Annexure V – Student Feedback Analysis

GUEST TALK – "AI-POWERED NETWORK SECURITY AND INTRUSION DETECTION" STUDENT FEEDBACK ANALYSIS

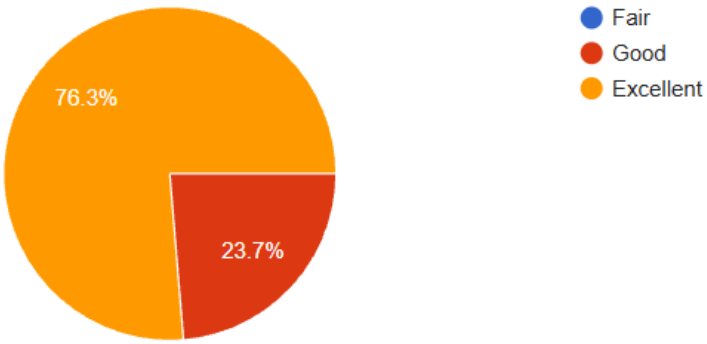
How relevant was the topic of AI-Powered Network Security and Intrusion Detection to your academic learning?

38 responses



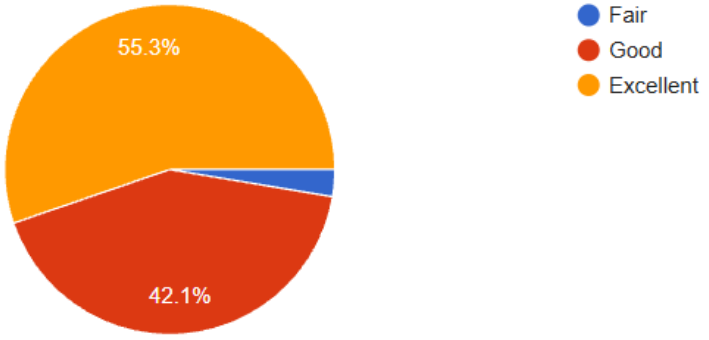
How effectively did the resource person communicate the technical concepts?

38 responses



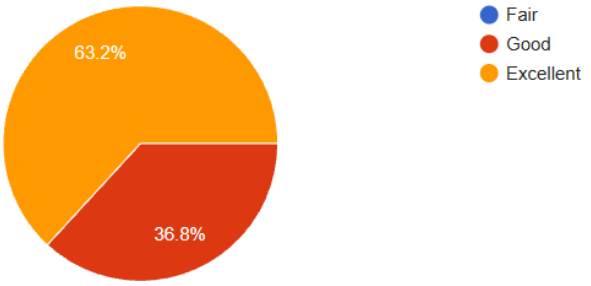
Did the session provide a clear understanding of the role of AI in network security?

38 responses



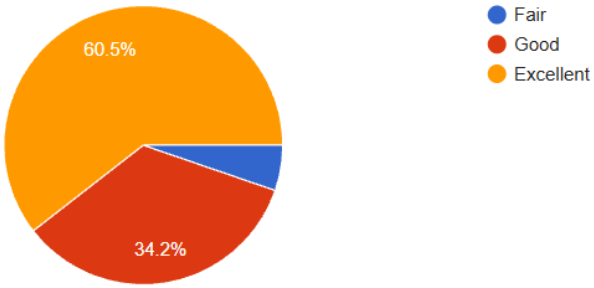
Did the resource person address students' questions and clarify their doubts?

38 responses



How would you rate the overall effectiveness of the guest talk?

38 responses



Comments and Suggestions (If any)

session was very helpful.
Good
Very informative and easy to understand.
speaker explained the concepts clearly with good examples.
NA
good
I learned how AI is used in network security.
Topic was relevant to our course.
Need live demos or hands-on practice next time.
NA
Q&A was useful and my doubts were cleared.
Please conduct more sessions on cybersecurity and AI.
Good
good

HOD-MCA

Head of the Department
Department of Master of Computer Applications
NEW HORIZON COLLEGE OF ENGINEERING
Ring Road, Bellandur Post, Bengaluru - 560 10