A Report on Expert Talk on
"Innovate with AI Tools: A KNIME based Approach"
Organised By Department of CSE-Artificial Intelligence
in Association with IIC - MITS
Date: 23.01.2025

Report Submitted by: Mr. Shahad. P, Assistant Professor, Department of CSE-Artificial Intelligence.
Resource Person Details: Prof. K. Ravi Kishore, Associate Professor, NIT Warangal.
Venue: MITS Auditorium
Participants: 239 (12 Faculty, 127 UG Students)
Time: 2:00 PM to 4:00 PM
Mode of Conduct: Offline

Department of Artificial Intelligence in association with Institution's Innovation Cell (IIC) organized an expert talk on "Innovate with AI Tools: A KNIME based Approach" in Auditorium on January 23rd, 2025, from 2:00 PM. onwards.

The session began with a welcome address delivered by Dr. P. Ramanathan, Vice Principal MITS Madanapalle. Followed by welcome speech Prof. K Ravi Kishore commenced the session by expressing his gratitude to the MITS Management, organizing team, HOD, Principal, and participants for the opportunity to share his knowledge on the AI tools KNIME.

The resource person outlined and discussed the following key points during the session:

- The platform's drag-and-drop interface empowers non-technical users to design AI workflows effortlessly without programming.
- Prebuilt nodes streamline tasks such as data pre-processing, modelling, and evaluation, simplifying the creation of AI solutions.
- It integrates seamlessly with IoT devices and streaming data, enabling innovations in smart manufacturing and predictive analytics.
- Workflow deployment is made easier with server capabilities, ensuring smooth integration into enterprise systems.
- A vibrant community and extensive resources provide robust support, fostering innovation and collaboration in AI development.

- Prof. K Ravi Kishore began the session by providing a comprehensive introduction to the KNIME (Konstanz Information Miner) tool, which is an open-source, user-friendly data analytics platform widely used for machine learning, data pre-processing, and AI-driven innovation.
- KNIME serves as a catalyst for innovation by providing a platform where users can experiment and implement AI solutions without requiring advanced programming skills. Its drag-and-drop interface enables rapid prototyping of workflows, empowering innovators to focus on problem-solving rather than technical barriers. The extensive library of prebuilt nodes simplifies tasks like data pre-processing, modelling, and evaluation, allowing users to explore and test ideas efficiently. Furthermore, its seamless integration with IoT devices and streaming data opens avenues for ground-breaking applications, such as real-time predictive analytics, smart manufacturing, and dynamic system monitoring.
- The platform also supports innovation through its ease of deployment, as workflows can be seamlessly transitioned into production environments using KNIME Server. This ensures that ideas move from concept to implementation without bottlenecks. Additionally, KNIME's vibrant community and comprehensive resources foster collaboration and continuous learning, encouraging users to explore new possibilities and share insights. By combining simplicity, scalability, and a rich ecosystem, KNIME equips innovators with the tools they need to develop cutting-edge solutions and drive meaningful advancements in AI and data analytics.
- The expert talk concluded with a lively Q&A session, where participants had the opportunity to ask questions and gain further insights from the resource person. The event ended with a vote of thanks delivered by Dr. K. Chokkanathan, HoD & Associate Professor, Department of CSE - AI, expressing appreciation for the resource person, and participants for making the event a success.

Outcome

1. Learned how to create AI workflows easily without coding.
2. Discovered tools to simplify data processing and modelling.
3. Gained insights into connecting AI with IoT and live data.
4. Understood how to deploy workflows in real-world systems.
5. Found helpful resources and a community for future support.

Newspaper Clips:

సాక్షి

ఇది కృత్రిమ మేధ యుగం

కురుకులకోట: ఇది కృత్రిమ మేధ యుగమని, ఆర్టిఫిషియల్ ఇంటెలిజెన్స్ (ఏఐ) వివిధ రంగాల్లో ఊహించని మార్పులతో సంచలనాన్ని సృష్టిస్తోందని వరంగల్లోని నిట్ ఇంజనీరింగ్ కళాశాల ఈసీఈ విభాగ అసోసియేట్ ప్రొఫెసర్ కె. రవికిశోర్ అన్నారు. అంగ్లూలోని మిట్స్ ఇంజనీరింగ్ కళాశాలలో గురువారం ఏఐ టూల్స్‌పై అరిగిన అవగాహన కార్యక్రమంలో ముఖ్య అతిధిగా ఆయన మాట్లాడుతూ ఏఐ ఆగమనంతో పరిశ్రమల్లో ఆవిష్కరణల దృక్ఫయాన్ని విష్ఫ్లాత్మకంగా మార్చిందని పేర్కొన్నారు. సులభ యాప్ ఇచ్చితమైన పరిష్కారాలను సృష్టించడానికి వీలు కలిగించడం, మోసాలకు అడ్డుకట్ట వేస్తోందని చెప్పారు. అనేక సంస్థలు వివిధ రంగాల్లో ఏఐ టూల్స్ వినియోగాన్ని ప్రోత్సహిస్తున్నాయని తెలిపారు. ఈ రంగంలో ఉపాధి, ఉద్యోగ, వ్యాపార అవకాశాలు ఉన్నాయని అన్నారు.

మాట్లాడుతున్న కె. రవికిశోర్