INSTITUTE INNOVATION COUNCIL
Pt.RavishankarShuklaUniversity,Raipur[C.G.]492010
Website:https://www.prsu.ac.in EmailID:iicpresident.prsu@gmail.com

Report

Institution Innovation Council,

Pt. Ravishankar Shukla University

Conducted

Three Days Workshop

On

Artificial Intelligence and Safety Measures

On

5th -7th August 2024

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Poster

Dr.KavitaThakur
PresidentIIC
Pt.RavishankarShuklaUniversity, Raipur, Chhattisgarh- 492010

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Details of Event

Name of Program Type	Three Days Workshop (Concept Development Activity under IIC-PRSU)
Name of Program Theme	Lecture Sessions on Artificial Intelligence & Safety Measures
Objective	The primary objective of the event was to inspire and aware the upcoming generation towards pros and cons of Artificial Intelligence .
Benefit	Awareness students towards Artificial Intelligence
Duration of Activity	18 hours
Mode of Event	Offline
No. of Students Participants	85
No. of Faculty Participants	Day 1: 15 Day 2: 9 Day 3: 5
No. of External Participants	NIL
Expenditure Amount	2700

Social Media Links:

Facebook-https://www.facebook.com/share/p/oiYyjYgwJrVGgCgk/

Instagram-
https://www.instagram.com/p/C7YcrGEI46q/?utm_source=ig_web_copy_link&igsh=MzRlODBiNWFlZA==

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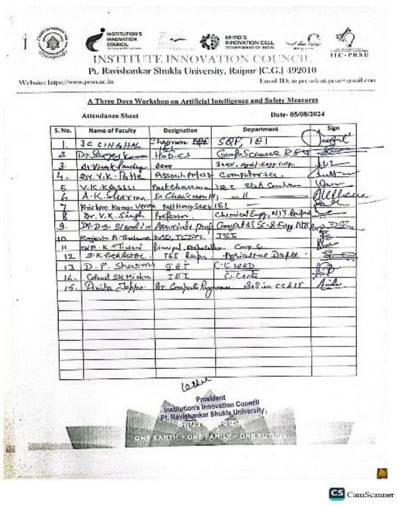
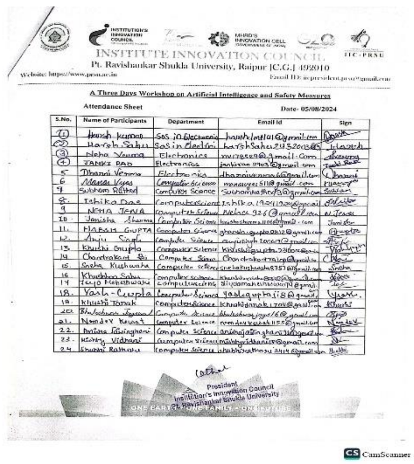
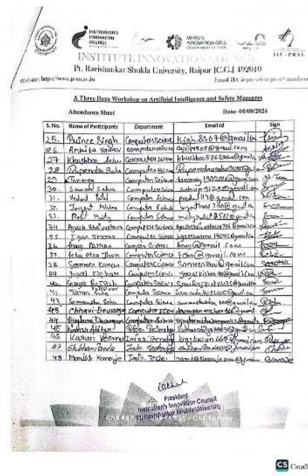
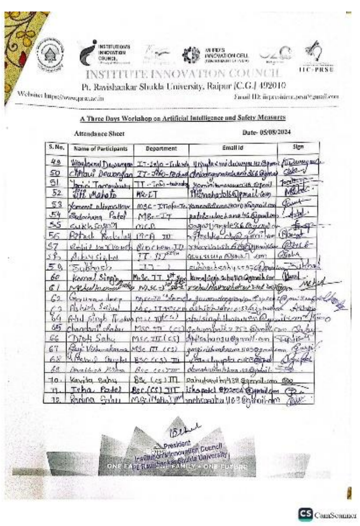
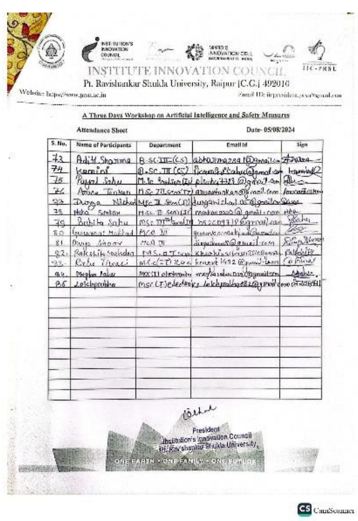
Attendance

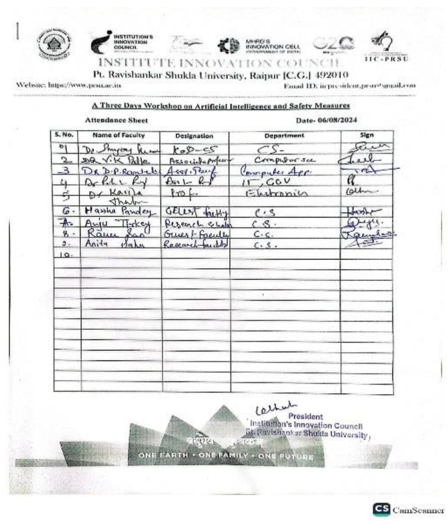












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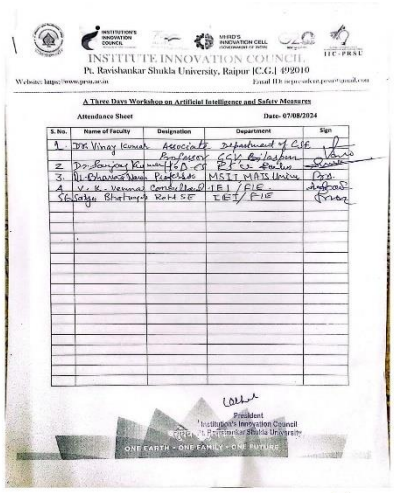
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A Three Days Workshop on Artificial Intelligence and Safety Measures
Attendance Sheet Date- 07/08/2024


INSTITUTE INNOVATION COUNCIL
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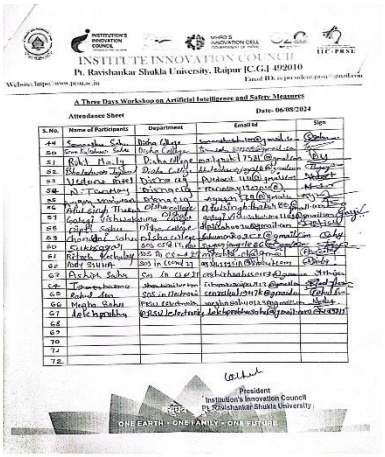
A Three Days Workshop on Artificial Intelligence and Safety Measures
Attendance Sheet Date- 06/08/2024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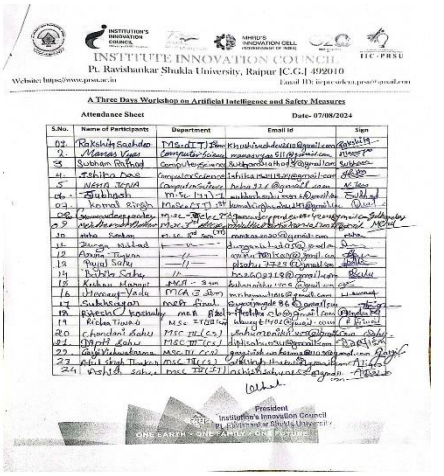
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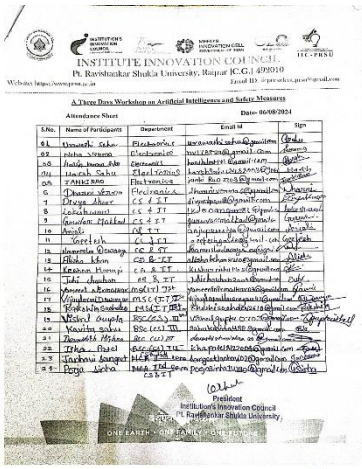
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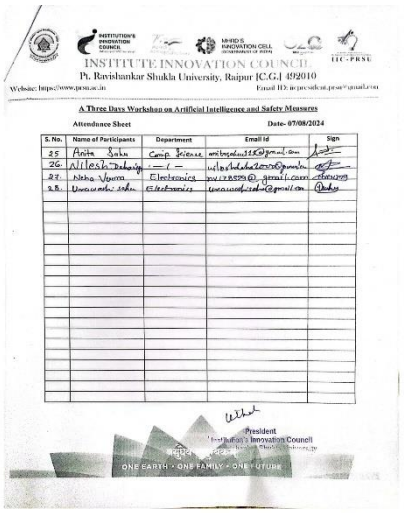
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About the Speakers

Day 1

Er.A.M.Pariyal ,Ex. CEO & Vice Chairman, Chhattisgarh Infotech Promotion Society (CHIPS),Raipur delivered a lecture where he enlightened students about the Artificial Intelligence in our life and he also covered Digital Twin Creation, Fault Detection, and Location Intelligence. Digital Twin Creation involves building a virtual model of a physical object to monitor and simulate its behavior, aiding in performance optimization and issue prediction. Fault Detection employs advanced technologies like machine learning to identify and address anomalies early, reducing downtime and maintenance costs. Location Intelligence uses geographic and spatial data to inform decision-making, optimize logistics, and plan infrastructure. Together, these technologies enhance operational efficiency, reliability, and strategic planning across various industries.

After the key note by A.M. Pariyal, Chief guest Er. J. C. Singhal, Council Member & Chairman, SQF, The Institution of Engineers (India) delivered a lecture emphasizing the cautious use of Artificial Intelligence. He highlighted the importance of handling AI technologies responsibly to avoid potential risks and ethical concerns. J.C. Single stressed that while AI offers significant benefits and opportunities, it is crucial to implement it thoughtfully and with due consideration of its impacts on society, privacy, and security. His insights aimed to guide the audience in leveraging AI's capabilities while maintaining a strong focus on ethical practices and responsible innovation.

Dr. D.S. Sisodia Associate Professor, CSE ,NIT Raipur discussed the challenges of Artificial Intelligence and how to integrate it into our lives. He highlighted various issues such as data privacy, algorithmic bias, and the ethical implications of AI. Dr. Sisodia emphasized the importance of understanding these challenges to effectively and responsibly adopt AI technologies. He provided practical advice on how to incorporate AI into daily life and professional practices while being mindful of its potential impacts. His lecture aimed to prepare the audience for navigating the complexities of AI and leveraging its benefits while addressing associated risks.

Day 02

Dr. Rohit Raja, Professor ,GGU Bilaspur delivered an insightful lecture on the multifaceted impact of Artificial Intelligence. He began by addressing the computational power required for advanced AI systems and examined Tesla's advancements in self-driving technology, emphasizing how such innovations are reshaping transportation. Prof. Raja also explored AI applications in healthcare and finance, detailing how AI is revolutionizing these fields through enhanced diagnostics, personalized treatment, and improved financial analytics. He also discussed the risks and challenges associated with AI. Prof. Raja highlighted concerns regarding data privacy, the integration of AI with existing systems, and the need for sustainable AI practices. He pointed out the potential for job displacement as automation becomes more prevalent, stressing the importance of preparing for workforce shifts. Additionally, Prof. Raja delved into the ethical and security implications of AI in warfare. He discussed the development of autonomous weapons and the potential risks posed by AI-driven military technology, underlining the need for stringent regulations and ethical guidelines. His lecture provided a thorough overview of both the opportunities and challenges of AI, aiming to foster a deeper understanding of its impact on society and encourage responsible innovation.

Following that, Dr. D.P. Rantele discussed the fundamentals of Artificial Intelligence. He provided a clear overview of core AI concepts, including machine learning, neural networks, and data processing. Dr. Rantele's session aimed to establish a strong foundation for understanding AI's principles and its potential applications.

Dr. Alok Kumar Singh Kushwaha delivered a detailed talk on image recognition techniques and natural language processing (NLP). He explained how image recognition technology uses algorithms to identify and interpret visual data from images, discussing its applications in areas like facial recognition and object detection. Dr. Kushwaha also covered NLP, detailing how it enables machines to understand and process human language, highlighting its use in applications such as chatbots, translation services, and sentiment analysis. His presentation provided valuable insights into these advanced technologies and their impact on various industries, emphasizing their growing importance in the field of AI.

Day 03

Dr. Vinay Kumar ,Professor ,GGU Bilaspur delivered an insightful lecture on soft computing, focusing on artificial neural networks (ANN), activation functions, and fuzzy logic. He began by explaining the principles of soft computing, which combines various computational techniques to handle complex problems involving uncertainty and approximation. Dr. Kumar detailed the architecture and functioning of artificial neural networks, emphasizing their ability to model intricate patterns and relationships through interconnected neurons. He provided a thorough overview of activation functions, which are crucial in determining how neurons in a network respond to input data. Dr. Kumar discussed different types of activation functions, such as sigmoid, ReLU, and tanh, highlighting their roles in enabling neural networks to learn and generalize from data. Additionally, Dr. Kumar explored the classification of neural networks, explaining various types and their specific applications, from feedforward networks to convolutional and recurrent networks. He also covered fuzzy logic, a form of many-valued logic that deals with approximate reasoning rather than fixed and precise values. Dr. Kumar illustrated how fuzzy logic systems can model complex, real-world processes by incorporating human-like reasoning. His lecture provided a comprehensive understanding of these foundational concepts in soft computing, essential for advancing AI and machine learning applications.

In the second session, Dharmendra Kaushik has an engaging hands-on programming workshop. He focused on providing practical experience with programming concepts and techniques. The session began with an introduction to fundamental programming principles, ensuring that all participants had a solid understanding of the basics. Dharmendra then guided attendees through a series of interactive exercises designed to reinforce these concepts and build coding skills. Participants had the opportunity to work on real-world problems, applying their knowledge to develop functional code. Dharmendra provided step-by-step instructions and demonstrated best practices, while also offering personalized support to help individuals overcome challenges. He emphasized the importance of writing clean, efficient code and shared tips for debugging and optimizing programs. By the end of the session, participants had a better grasp of programming techniques and felt more confident in their coding abilities. The workshop was designed to be both educational and practical, equipping attendees with valuable skills for their future programming endeavors.

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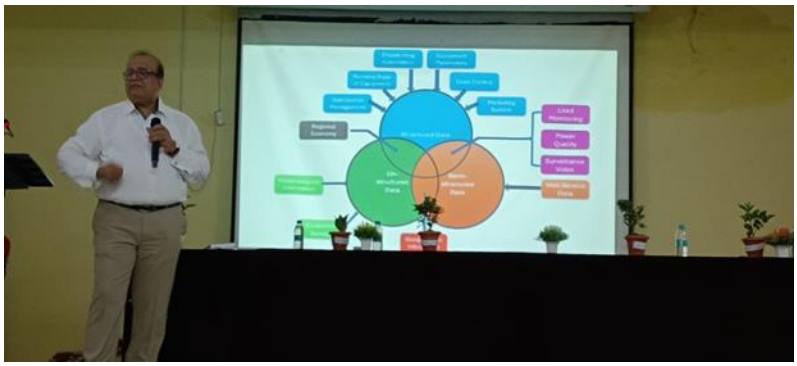
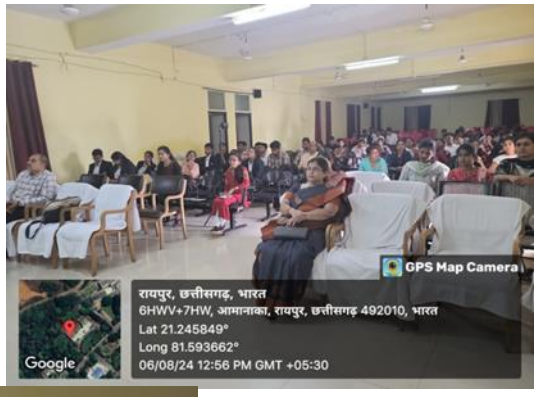
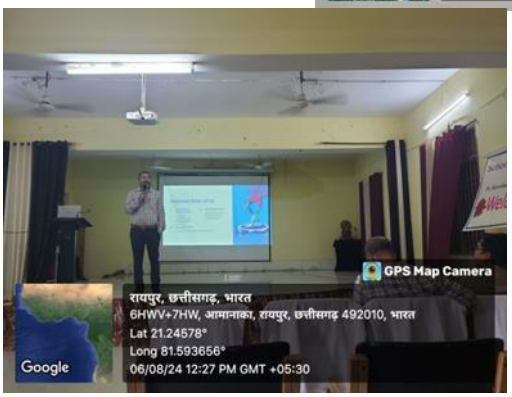
Photos of the Event







Conclusion/Outcomes of the Workshop

The Three Days Workshop at Computer Science and IT Department, Pt. Ravishankar Shukla University, was an immense success thanks to Er. J. C. Singhal, Er. A. M. Pariyal, Prof. D.S. Sisodia, Prof. Rohit Raja, Prof .Vinay Kumar, , Prof .Alok Kumar Singh Kushwaha, and , Prof. D.P. Rantele contributions. Students became aware of the pros and cons of AI, understanding its potential benefits in education and automation, as well as its risks, such as job displacement and privacy concerns. They also learned about safety-related problems like bias in algorithms and the need for ethical AI development to ensure responsible use.

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