



## **Avinashilingam Institute for Home Science and Higher Education for Women**

Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD

Re-accredited with 'A++' Grade by NAAC.CGPA 3.65/4, Category I by UGC

Coimbatore-641 043, Tamil Nadu, India



### **ISO/IEC 20000-1:2018 Centre for Machine Learning and Intelligence**

#### **Post Event Summary Report**

**Name of the Event:** 6<sup>th</sup> Research Colloquium 2024

**Date of the Event:** 02.12.2024 & 03.12.2024

**Venue:** Centre for Machine Learning and Intelligence

On November 28<sup>th</sup> and 29<sup>th</sup> 2024, the research colloquium was held to encourage the research scholars and staffs in their respective domains to enhance their research perspectives and knowledge. Coordinator, Centre for Machine Learning and Intelligence (CMLI) and Professor of Computer Science Dr. P. Subashini took this great initiative and sponsored to start of this research colloquium in the consideration of benefits to the Research Scholars and staffs to drive to mission and vision of the Centre for Machine Learning and Intelligence. Co-coordinator, Centre for Machine Learning and Intelligence and Assistant Professor of Computer Science Dr. M. Krishnaveni organized the event and arranged the venue for this research colloquium.

The participants of this event on that day are Ms. Jayashree Ganeshkumar, Mrs. Bhuvaneshwari S, Dr. R. Janani, Ms. E. Rathipriya, Mrs. A. Mahalakshmi, Ms. S. Aanisa, Ms. C. Sandiya, Ms. Aiswarya S, Mrs. Elizabeth Leah Thomas and Mrs. Manju Joy, who presented their research work for 10 to 15 minutes. At the end of each presentation questions were raised, and the following structured process of brain storming, exchange of information, and the participants of the research colloquium reached a consensus with the discussion of their barriers, solutions, remarks and suggestions given by our respective professors and other participants.

Finally, the best presenter Ms. Aiswarya S was rewarded with cash Rs. 1000/- by Dr. M. Krishnaveni, Co-coordinator of Centre for Machine Learning and Intelligence.

The following are the suggestions and remarks are given by our respective professors, research staffs and research scholars.

S. No	Name of Research Scholar/Staff	Presentation Title	Remarks and Suggestions
1	Jayashree Ganeshkumar	Hugging Face and Ollama – Transforming NLP and AI for All	<ol style="list-style-type: none"> <li>1. Is it only for NLP models?</li> <li>2. Can you explain your example?</li> <li>3. Have you tested your model? Is there any metrics?</li> <li>4. What is the difference between ChatGPT and Ollama?</li> <li>5. Could you mention the architecture of this model?</li> <li>6. What is the procedure to download this model?</li> <li>7. What is the research use of this tools?</li> <li>8. What are the disadvantages?</li> <li>9. Will you implement this in your broad specialization, adaptive learning?</li> </ol> <p><b>Remarks:</b> This is new and good topic. Good presentation. Need more detailed content.</p>
2	Bhuvaneswari S	HieShift: Revolutionizing Image Analysis with Shifted Window Techniques	<ol style="list-style-type: none"> <li>1. You have used already available model. What is your contribution in that?</li> <li>2. What is the problem using this transformer in your research?</li> <li>3. Have you tested this with other networks like CNN?</li> <li>4. What is the scope of the research?</li> <li>5. What is the novelty in this research work?</li> <li>6. How to enhance this swin architecture ? What can we add extra to enhance this model?</li> </ol> <p><b>Remarks:</b> Good presentation and good topic.</p>
3	Dr R. Janani	Toxicity Prediction using Quantum Machine Learning	<ol style="list-style-type: none"> <li>1. What can you contribute using these models?</li> <li>2. Is there any other metrics?</li> <li>3. How much does it cost?</li> <li>4. Is there any other simulator?</li> </ol> <p><b>Remarks:</b> Try to implement and collaborate with chemistry. Presentation and topic was very good.</p>
4	E. Rathipriya	3D Printing: Innovations Leading the Way	<ol style="list-style-type: none"> <li>1. Is it only for 3D models or can we use this for 2D models also?</li> </ol>

			<ol style="list-style-type: none"> <li>2. How reliable is the model. Is it safe?</li> <li>3. How about in bioscience printing ? what about the machine?</li> <li>4. How can we feed the food in the food printer?</li> <li>5. In construction, can you construct a prototype?</li> </ol> <p><b>Remarks:</b> Make a study and construct a prototype. General topic and presentation was good</p>
5	A. Mahalakshmi	Synthesia : AI Video communication platform	<ol style="list-style-type: none"> <li>1. How it differs from other tools?</li> <li>2. Is it open source?</li> </ol> <p><b>Remarks:</b> You should prepare your prestaton neatly and follow some ethics.</p>
6	S. Aanisa	Multi-Sensory in Immersive Technology	<ol style="list-style-type: none"> <li>1. What about the olfactory effects?</li> <li>2. What about the pain management?</li> <li>3. How to measure the pain in VR?</li> <li>4. What is the digital lollipop, is it a sensor?</li> </ol> <p><b>Remarks:</b> Topic and presentation was ok.</p>
7	Sandiya. C	Netflix Leverages AWS to Scale and Innovate	<ol style="list-style-type: none"> <li>1. What is CDN?</li> <li>2. What about your concepts?</li> <li>3. What is the takeaway from your presentation?</li> <li>4. Is there any other CDN like AWS?</li> <li>5. What is the difference between AWS and other services?</li> <li>6. Is any others using AWS like Netflix?</li> </ol>
8	S.Aiswarya	Exploring Vision-Language Model (VLM): The Future of Computer Vision and Multimodal Intelligence	<ol style="list-style-type: none"> <li>1. How can we adopt this in medical images?</li> <li>2. Already so many segment models are available. How it differs from others?</li> <li>3. In LLM we have text, so it will predict sequence of text. In the same way how images will work?</li> <li>4. How does it differ from image classification?</li> </ol>

			<b>Remarks:</b> Reduce your presentation slides. Good and detailed presentation. Very good study.
9	Elizabeth Leah Thomas	Improvising Clustering Accuracy with Graph optimisation to identify Bias Clusters in social media	1. Is there any other Metrics?
10	Manju Joy	Knowledge graphs	No Queries

### Event Photos



Fig 1 : Certificate given to Ms. Jayashree Ganeskumar





Fig 2 : Certificate given to Mrs. Bhuvaneswari S

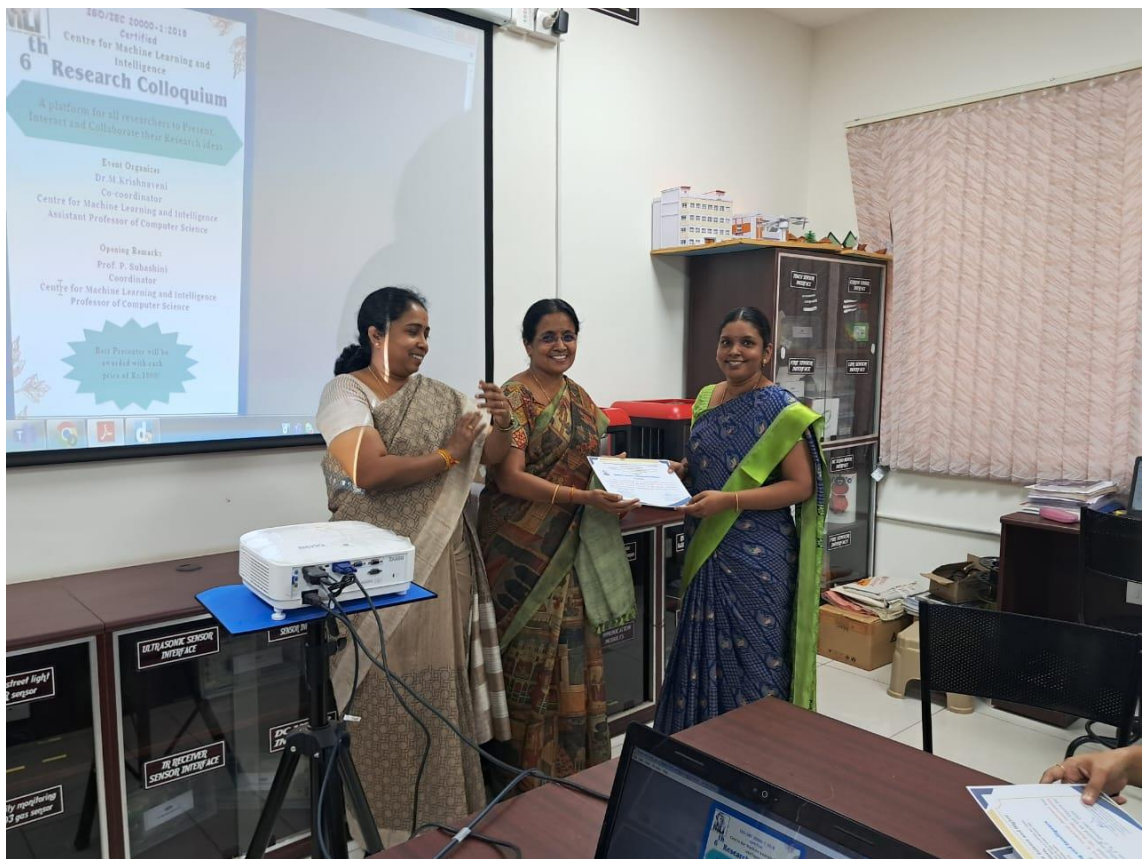


Fig 3 : Certificate given to Dr .R. Janani



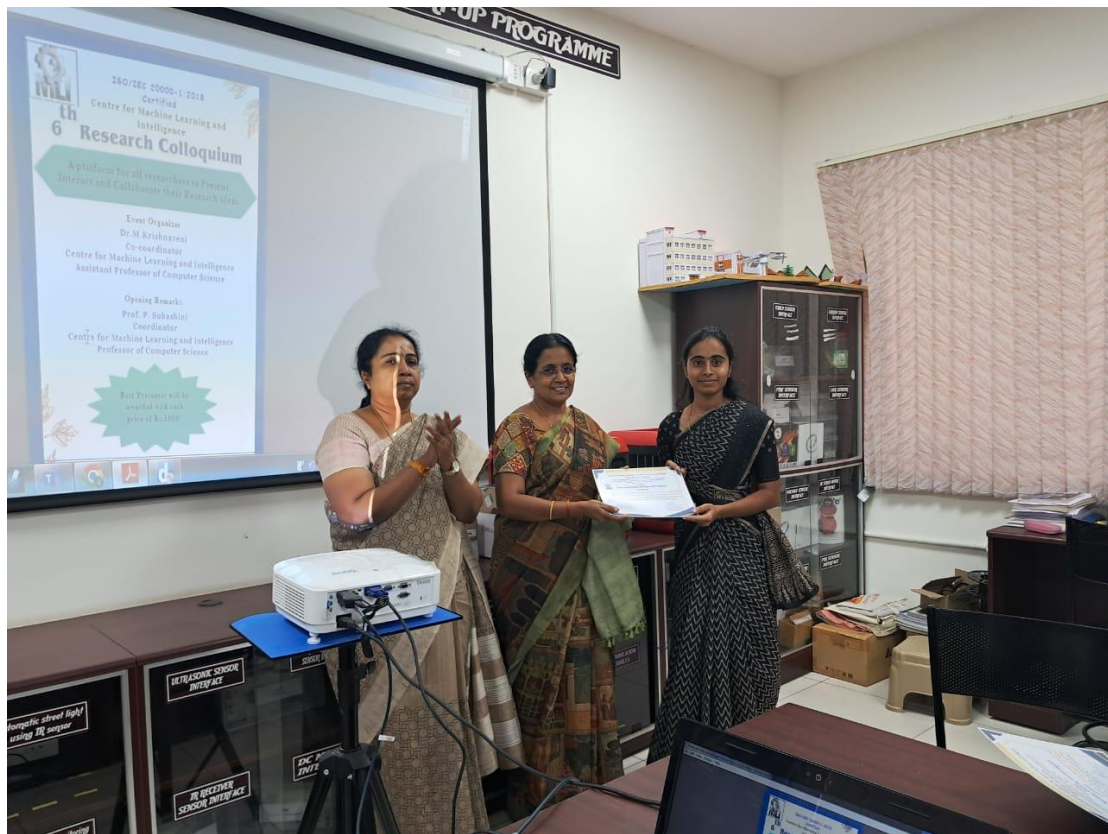


Fig 4 : Certificate given to Ms. E Rathipriya



Fig 5 : Certificate given to Ms. Mahalakshmi A





Fig 6 : Certificate given to Ms. Aanisa S



Fig 7 : Certificate given to Ms. Sandiya C





Fig 8 : Certificate given to Ms Aiswarya S



Fig 9 : Best presenter award to Ms. Aiswarya S