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
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Coimbatore-641 043, Tamil Nadu, India

Centre for Machine Learning and Intelligence
&
AAI Start-up Programme

Post Event Summary Report

Name of the Event: 5th Research Colloquium 2024

Date of the Event: 21.03.2024 & 22.03.2024

Venue: AAI Start-up Programme, Centre for Machine Learning and Intelligence

On March 21st and 22nd 2024, the research colloquium was held to encourage the research scholars and staffs in their respective domains to enhance their research perspectives and knowledge. Centre for Machine Learning and Intelligence (CMLI) co-ordinator, Professor 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. Assistant Professor and the Faculty of In-charge of AAI Start-up Programme Dr. M. Krishnaveni organized the event and arranged the venue for this research colloquium.

The participants of this event on that day are Ms. M. Mohana, Dr. R. Janani, Ms. C. Sandiya, Ms. Jayashree Ganeshkumar, Mrs. Bhuvaneswari S, Ms. Aiswarya S, Ms. Jennyfer Susan MB, Mrs. V. Narmadha, 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. Jennyfer Susan M B was rewarded with cash Rs. 1000/- by Dr. M. Krishnaveni, Assistant Professor and Faculty In-charge of AAI Start-up Programme.

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	Ms. M. Mohana	Insights on Vision Transformer (ViT)	1. What is attention mechanism? 2. What is the strategy to divide the image patches?

			3. Is this ViT used for any other data or images only? 4. Have you implemented? 5. How you compare ViT and CNN. Because ViT is recent technique, you can compare any close to this model. 6. What is patches? Is it matrix. 7. If it is matrix is there any limitations **Remarks:** Detailed study and good presentation.
2	Dr. R. Janani	Understanding the Power of Large Language Models(LLM)	1. What is the various versions of GPT? 2. How can we evaluate it? 3. Can we compare this algorithm into other variants or algorithms? 4. Does this LLM comes under NLP? Give an example. 5. What is the outcome of this LLM? 6. Can we use this for different languages like Tamil, etc., **Remarks:** Good and Neat explanation.
3	Ms Jayashree Ganeshkumar	Hyper-personalized Learning systems	1. What is hyper personalized learning? **Remarks:** Simple presentation and less content. **Suggestion:** Need to prepare more content
4	Ms. Sandiya C	Neuromorphic Computing	1. What is synapses? Is it a transmitter. 2. What is the difference between neuromorphic computing and traditional computing? 3. Is it a hardware? 4. Where it will be available? **Remarks:** Good topic. She has introduced the new concept.
5	Mrs. Bhuvaneswari	All About SAM (Segment Anything Model)	1. Is it a tool or technique? 2. For whom it will be useful? 3. What about the research in this? 4. Can we customize this SAM? 5. What are the methods available for preprocessing in SAM?

			6. How do you use metrics in SAM? 7. What kind of contribution can you give apart from segmentation? **Remarks:** Well explored and presented clearly.
6	Ms. Aiswarya S	Exploring the Visual Representation of Feature Maps in Convolutional Neural Network Layers	1. How you identify the underfitting and overfitting? 2. How do you find the overfitting from these images? 3. From this visualization, how can I understand, where my model is overfitting? 4. How the impact will be useful in the model? 5. While going depth, we cant see anything, then how it will be useful. **Remarks:** Technical implementation and well answered
7	Jennyfer Susan M B	Image Classification using Federated Learning	1. Can we use any kind of data over federated learning? 2. Is it only for text analysis? **Remarks:** Clearly explained and very good topic. Applications are really good
8	Mrs Narmadha V	Generative AI	1. How reliable is Plag AI? **Remarks:** As a Technical Assistant you have well explored and justified. Very informative presentation
9	Mrs. Manju Joy	Named Entity Recognition Using Transfer Learning techniques	**Online Presentation** 1. What is the need for token classification here? **Remarks:** She presented her research work. General presentation.
10	Mrs. Elizabeth Leah Thomas	Deep learning analysis of social networks	**Online Presentation** 1. What kind of community you are focusing for community detection? 2. What is the objective of your work? **Remarks:** Lengthy presentation. She presented her research work.

Event Photos

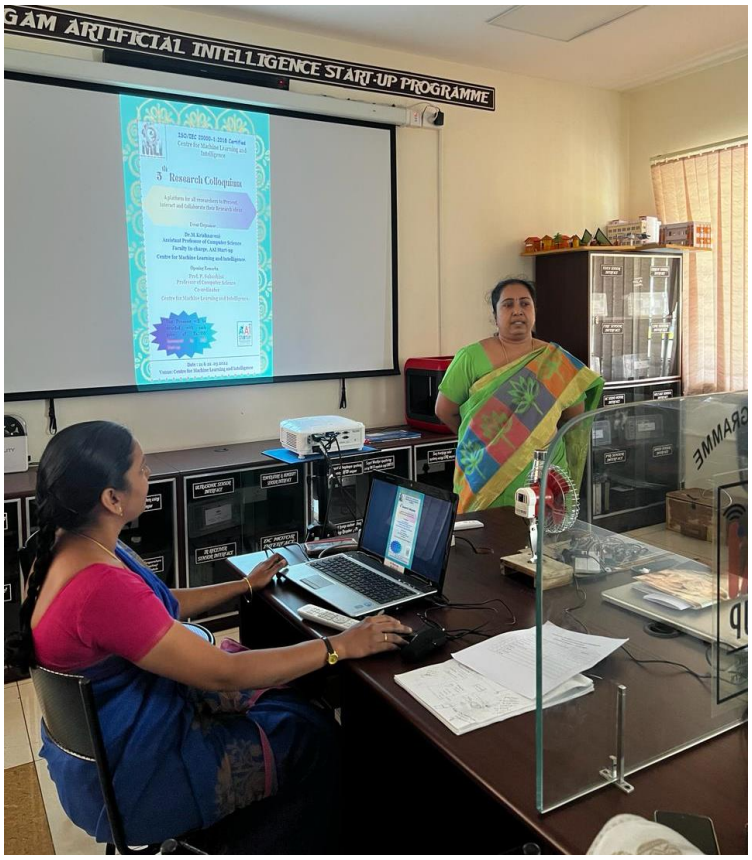

Fig 1: Opening Remarks by Dr. M. Krishnaveni

Fig 2 : Certificate given to Ms. Jayashree Ganeskumar

Fig 3 : Certificate given to Dr .R. Janani

Fig 4 : Certificate given to Ms. Mohana M

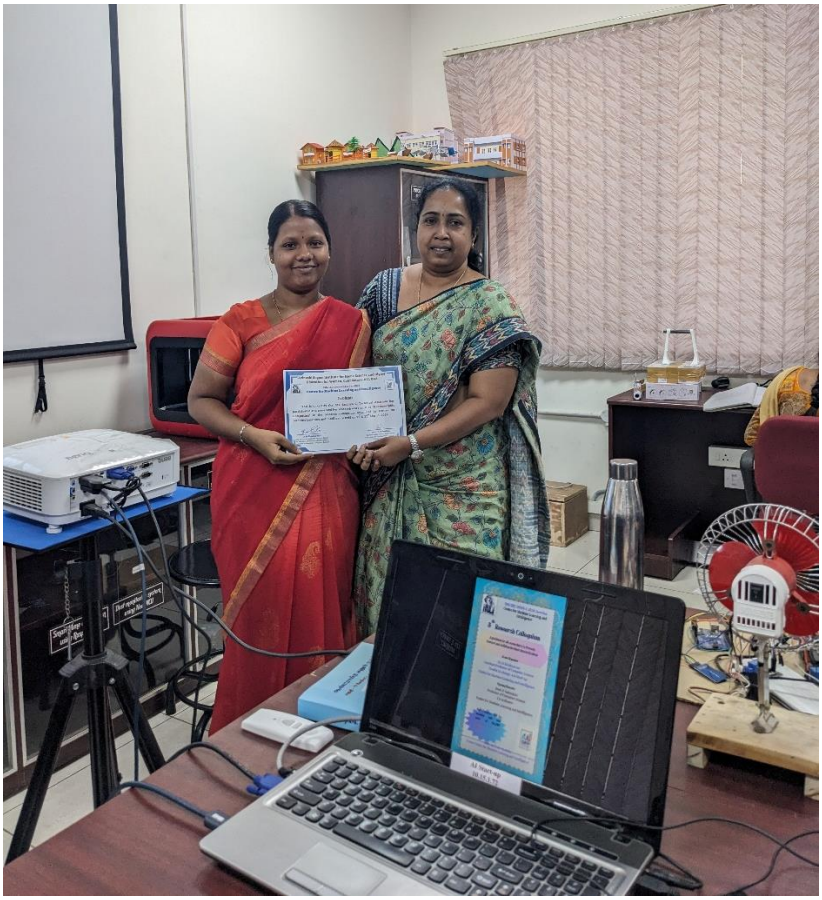

Fig 5 : Certificate given to Ms. Sandiya C

Fig 6 : Certificate given to Mrs. Bhuvaneswari S

Fig 7 : Certificate given to Ms. Aiswarya S

Fig 8 : Certificate given to Mrs. Jennyfer Susan M B

Fig 6 : Certificate given to Mrs. Narmadha V

Fig 8 : Best presenter award to Mrs. Jennyfer Susan M B