

Centre for Artificial Intelligence

Preamble

Artificial intelligence (AI) is the new electricity that is changing our world enormously. From Healthcare to autonomous vehicles and intelligent web services, AI is redefining research and innovation. It creates new opportunities for accelerating scientific breakthroughs and rethinking business models.

Centre for Artificial Intelligence has been set up in Mother Teresa Women's University Research & Extension Centre, Madurai Campus funded by **DST-CURIE** on *20th September 2019* in recognition of the increasing importance with a vision to develop theoretical foundations and advanced algorithms for artificial intelligence and to drive significant progress in related areas. The main goal is to make impactful contributions to Society and Industry.

This Centre is aimed to foster excellence in education and research in AI at the Faculty of Science. By facilitating cross-disciplinary collaborations across the faculty and with industrial partners, the Centre aims at pushing the boundaries of AI research and in producing the next-generation AI experts. It also fosters in developing and applying AI technology in various domains pertaining to the social demands and challenges.

As part of AI Centre, an AI Club has been initiated for the students. The AI Club provides a platform for the Students to showcase their talents in AI related concepts. Students are involved in organising various programmes which enhances their personality traits and managerial capabilities. Various activities like Expert Talks, Team Summit , Hackthons and Competitions are being conducted regularly to improvise their professional and leadership skills.



Vision

- To attain and sustain Global standards in Artificial Intelligence Education and to contribute to the dynamic needs of the Society.

Mission

- Imparting quality education through well designed curriculum to face the challenging Industrial demands in AI.
- Providing state-of-art research facilities and to seek solutions of Societal importance in AI.
- Transforming the learners into empowered AI Women Professionals who are intellectually competent, morally upright and socially committed.

Objectives of CAI

- To offer PG / Diploma/ Certificate Courses for Girl Students and to give basic knowledge in AI to all and advanced Knowledge to the aspiring Professionals.
- To enable the faculty in up-skilling and re-skilling in AI-related fields for Teaching and Research.

- To facilitate Women Research Scholars to pursue advanced research in Machine Learning and AI related areas by providing research guidance, access to the needed data and computing facilities.
- To create conclaves/ forums/ clubs that focus on discussing, debating, and shaping up the next-generation AI technologies.

Four Extents of CAI

- Offering PG/ Diploma/ Certificate Courses on AI & Machine Learning Techniques
- Conducting Seminars/ Workshops/ FDPs nationwide
- Organising AI Club activities & reach the maximum Students
- Focusing Research on AI among Women Researchers

Highlights

- Teaching and Outreach programmes in Artificial Intelligence and Machine Learning
- Build Human Resource in AI: To build a vibrant community of Professors, Researchers and Students who apply AI to solve real industry specific problems
- Excel in Artificial Intelligence Research
- Establishing Research based Entrepreneurship

Workshop/Seminars/FDP

- International Workshop on “**Artificial Intelligence in Education**” on 5th August 2019.
- International Workshop on “**Machine Learning Techniques**” on 3rd & 4th December 2019.
- International Seminar on “**Data Science & Intelligent Systems**” on 18th December 2019.
- Two days National Workshop on “**Artificial Intelligence in Healthcare**” on 13th & 14th January 2020.
- National Seminar on “**Deep Learning & its Applications**” on 24th January 2020.

- International Seminar on “**Research Avenues in Data Science**” on 7th February 2020.
- One Week National FDP on “**Artificial Intelligence & Machine Learning Techniques**” from 13th to 19th February 2020.

AI Club Activities

- ❖ **AI Club** Inauguration on 27th September 2019.
- ❖ Expert Talk on “**Artificial Intelligence to Everywhere**” on 9th October 2019.
- ❖ Discussion Forum on “**Research Scopes in AI**” on 25th October 2019.
- ❖ Expert Talk on “**Basics of AI & Machine Learning**” on 1st November 2019.
- ❖ Lecture on “**Human vs Machine Intelligence**” on 11th November 2019.
- ❖ Colloquium on “**Machine Learning Techniques**” on 13th November 2019.
- ❖ Lecture on “**AI in Education**” on 20th November 2019.
- ❖ Lecture on “**Recent Trends in AI**” on 25th November 2019.
- ❖ **Techno Treat Competitions** conducted from 4th to 6th December 2019.
- ❖ **Techno Treat Competitions** conducted on 17th December 2019.
- ❖ Workshop on “**Embedded Intelligent Systems using Tensorflow**” on 29th January 2020.
- ❖ Summit on “**AI Waves of the Decade**” on 31st January 2020.
- ❖ Summit on “**NLP in Machine Learning**” on 25th February 2020.
- ❖ Research Colloquium on “**Natural language Processing for Machine Learning**” on 27th February 2020.
- ❖ **Hackathon’2020 Competitions** on 5th & 6th March 2020.

Director

Dr M Pushpa Rani

Professor & Head

Department of Computer Science

Mother Teresa women’s University



INTERNATIONAL WORKSHOP ON “ARTIFICIAL INTELLIGENCE IN EDUCATION”



Dr. Vivekanadan Sureshkumar, Professor, Athabasca University, Canada.
Ms. Geetha Paulmani, School of computing, University of Eastern Finland, Finland.
Dr. Ponsy R.K. Sathia Bhama, Associate Professor of Computer Technology, MIT, Chennai.

INTERNATIONAL WORKSHOP ON “MACHINE LEARNING TECHNIQUES”



Dr. J. Emerson Raja, Professor, Faculty of Engineering and Technology, Multimedia University, Malaysia
Dr. G. Suganya, Assistant Director, Software Development Cell, Associate Professor, SCSE VIT, Chennai.
Dr. S. Bharathidasan, Head, Department of Computer Science, Loyola College, Chennai.

INTERNATIONAL SEMINAR ON “DATA SCIENCE & INTELLIGENT SYSTEMS”



Dr.Xavier Fernando, Professor and Director, Ryerson University, Canada

Dr. S.Baskar, Professor, Thiagarajar College of Engineering, Madurai

FDP ON “ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING ”



HACKATHON'20- INAUGURAL FUNCTION



HACKATHON'20- CHIEF GUEST ADDRESS

