



# Avinashilingam Institute for Home Science and Higher Education for Women



**AIU – Avinashilingam Institute –  
Academic and Administrative Development Centre  
(AIU-AI-AADC)  
&  
Centre for Machine Learning and Intelligence (CMLI)  
&  
School of Allied and Healthcare Sciences**

**Jointly organizes**

**Sixth Short Term Capacity Building Programme for the year 2024**

**on**

**Artificial Intelligence in Allied and  
Healthcare Sciences**

**19.08.2024 to 23.08.2024**



**Mode : Online**

## ABOUT THE INSTITUTE



**Avinashilingam Institute for Home Science and Higher Education for Women - the epitome of higher education is one of the premier institutions in India well known for its commitment towards the empowerment of women through value based and holistic education. The institute follows educational ideals of Sri Ramakrishna, Holy Mother Sri Saradamani Devi, Swami Vivekananda and Mahatma Gandhiji. The institute is one of the significant contributions of Padma Bhushan, Dr. T. S. Avinashilingam, an illustrious educationist, freedom-fighter and Gandhian and Dr. Rajammal P. Devadas, the world- renowned nutritionist.**

**The Institute had its humble beginning in the year 1957 as Sri Avinashilingam Home Science College for Women and has been conferred the Deemed to be University by MHRD in 1988. Few of the recent accolades of the Institute includes: A++ with CGPA of 3.65/4 by NAAC; 81st Rank in NIRF, 5th Rank under the category of 'University & Deemed to be University (Govt. & Govt. Aided) Technical' in ARIIA - 2021.**

**Presently, the institution is progressing towards 'beyond-excellence' under the able guidance and leadership of Dr.T. S. K. Meenakshi Sundaram, Managing Trustee and Chancellor, Dr. V. Bharathi Harishankar, Vice Chancellor and Dr. H. Indu, Registrar i/c.**



# ABOUT THE ASSOCIATION OF INDIAN UNIVERSITIES

Association of Indian Universities (AIU) is an apex inter university representative body of universities and other higher education institutions in the country. Established in 1925 as the Inter University Board (IUB) of India, it acquired its legal status as a registered society in 1967 under the Societies Registration Act 1860 and was rechristened as Association of Indian Universities (AIU) in 1973. AIU is the second oldest university association in the world next to the Association of Commonwealth Universities which was established in 1913.

It has the distinct feature of having the largest network of universities and other HEIs under its ambit with 1002 Members which includes 16 Associate Members of Foreign Countries. The membership of AIU includes all types of universities e.g., Conventional Universities, Open Universities, Deemed to be Universities, State Universities, Central Universities, Private Universities and Institutes of National Importance.

In addition to Indian Universities, Universities / Institutes from Bangladesh, Bhutan, Republic of Kazakhstan, Malaysia, Mauritius, Nepal, Thailand, United Arab Emirates and United Kingdom are its Associate Members. Since its inception AIU has played a very significant role in the development of Education in the Country.

Some of the eminent scholars and visionary leaders like Dr Sarvepalli Radhakrishnan, Dr Shyama Prasad Mukherjee, Dr Zakir Hussain, Sir. A L. Mudaliar have given leadership to AIU. During such a long journey, AIU has carved a niche for itself by serving the Ministry of Education, Govt. of India as a research-based policy advisory body. Being an apex institution, it constitutes an integral part of all major decision-making committees and commissions in the country.

As an academic 'think tank' organization, AIU supports the Government as research-based policy advisory body with the wider mandate of taking up research projects on higher education policy and capacity building. It also acts as a bureau of information on higher education; liaise with international bodies and universities for internationalization of Indian higher education among many others. The Vision of AIU is to emerge as a dynamic service and apex advisory organization in India by undertaking initiatives and programmes which could strengthen and popularize Indian higher education as leading-edge system in the world and promote greater national and international collaboration in Higher Education, Research, Extension, Sports, Youth and Cultural Activities.

It is bestowed with the mission of promoting and representing the Indian Universities and other higher education institutions through strong liaison with the government and National/International organizations, sister associations world over and establish liaison between/among universities through active support, cooperation and coordination among the member universities and all its stakeholders for quality education, research and other academics and extension activities.



## ABOUT THE CENTRE

**AIU-Avinashilingam Institute - Academic and Administrative Development Centre (AIU-AI-AADC)** has been initiated by the institute in association with Association of Indian Universities (AIU) as a step towards training the human resources of higher education institutions. The specific objectives of the centre are:

- Facilitate learning through Performance Improvement Programmes for different groups (Administrators/Teaching Faculty/Non-Teaching Research Scholars/Technical Personnel) towards progression based on their career stages.
- Enable continuous learning through rigorous need-based training sessions
- Sensitize stakeholders on recent developments in higher education system in the country and across the world.
- Equip academic / administrative / technical / information personnel with the requisite skills on ICT to handle their work effectively.
- Develop integrity and professional ethics among higher education personnel.
- Strengthen the human capital of the country with right attitude, skills, and knowledge

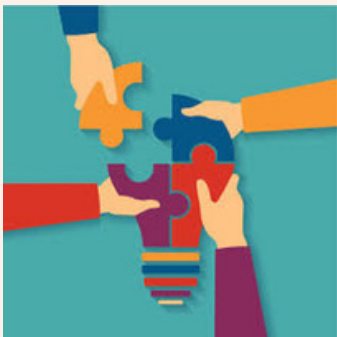


### VISION

To facilitate value-based transition towards changing higher education ecosystem through continuous capacity building.

### MISSION

To impart ICT enabled training to human resources of higher education institutions thereby preparing themselves towards Education 5.0.



# ABOUT THE PROGRAMME



- Artificial Intelligence (AI) is rapidly reshaping the landscape of healthcare, offering unprecedented opportunities to enhance diagnosis, treatment, patient care, and operational efficiency. This capacity building program explores the profound impact of AI in healthcare, highlighting its benefits, challenges, and ethical implications.
- AI's integration into healthcare begins with its ability to process vast amounts of data swiftly and accurately. Medical imaging, for instance, benefits immensely from AI algorithms that analyze complex scans such as MRIs and CT scans, aiding radiologists in detecting subtle anomalies that might be missed by human eyes. This capability not only improves diagnostic accuracy but also speeds up the interpretation process, potentially leading to earlier interventions and improved patient outcomes.
- Moreover, AI plays a crucial role in personalized medicine by analyzing genetic data, patient history, and other variables to tailor treatments to individual patients.

- This approach moves away from the traditional one-size-fits-all model towards precision medicine, where therapies are optimized based on the unique characteristics of each patient. For example, AI can predict how patients will respond to specific medications, allowing healthcare providers to prescribe the most effective treatment with fewer side effects.



- In addition to diagnosis and treatment, AI enhances patient care through remote monitoring and predictive analytics. Wearable devices equipped with AI algorithms can continuously monitor vital signs and other health metrics, alerting healthcare providers to potential issues before they escalate. This proactive approach not only improves patient safety but also reduces hospital admissions and healthcare costs.
- Despite AI advancements, many societies, especially low-income and developing countries, lack access to these technologies, raising ethical concerns. Privacy and data protection are crucial. The WHO emphasizes six core principles for AI in healthcare: protect autonomy, promote well-being and safety, ensure transparency, foster accountability, ensure equity, and support sustainability.

## OBJECTIVES

- Explore the cutting-edge of AI in healthcare.
- Foster a deeper understanding of the transformative potential of AI technologies in improving healthcare delivery.
- Equip participants with the knowledge and resources needed to implement AI solutions in their respective organizations.
- Enhance clinical decision-making and streamline administrative tasks.
- Empower healthcare professionals to effectively use AI.

## TARGET PARTICIPANTS

This program is designed for faculty members and research scholars from related disciplines of Higher Education Institutions (HEIs), Health care administrators, Medical professionals, clinical instructors, practitioners.

**Duration :** 19.08.24 to 23.08.24

**( 5 Days Programme )**

**Time :** 9:30 am to 4:45 pm

**Note :** E-certificates will be issued upon successful completion of programs, with attendance, feedback, and assessment submissions being mandatory.

# PROGRAMME SCHEDULE

## Day 1: Date: 19.08.2024

- Application of AI in Healthcare
- AI Enhanced Diagnostics imaging
- Ethical Dimensions of AI in Healthcare
- AI Integration in Healthcare and Clinical Medicine

## Day 2: Date: 20.08.2024

- Future Trend In AI And Physiotherapy: Insights Into Upcoming Innovations.
- Future Of Digital Healthcare In Rural India
- AI enabled Wearable Diagnostic Devices
- Precision Instrumentation in Medical and Surgical Care



## Day 3: Date: 21.08.2024

- AI in Optometry
- AI Powered Diagnostic Tools for Eye Diseases
- AI in Ophthalmic Diagnostics
- AI in Dispensing Optics

## Day 4: Date: 22.08.2024

- AI Technology in cochlear Implant sound processing
- Application of AI Technology in Diagnostic Audiology
- AI Technology on Articulation
- Application of AI in Breaking Speech & Language Barriers



**Day 5: Date: 23.08.2024**

- **Role of AI in Mental Health Services**
- **Impact of VR and Digital Isolation on Mental Health**
- **Leveraging AI for predictive health care**
- **AI in Public Health**

## **LIST OF RESOURCE PERSONS**

- **Prof. Dr. Ashok Thiakarajan, Chief Executive Officer, Meridian Hospital, Chennai.**
- **Dr. R. Chandrasekhar Menon, Director, Global Institute of Healthcare Analytics, USA.**
- **Dr. Vimal Prakash, Department of Cardiothoracic Surgery, St Johns Medical College Hospital, Bengaluru, Karnataka.**
- **Dr. Vidhya Prathap, Duty Medical Officer, General Medicine, United Kingdom.**
- **Dr. Richa singh, Founder & CEO at Perfect Bounce Healthcare Pvt Ltd, Bengaluru, Karnataka, India.**
- **Dr. Kalpa Negiloni, Clinical Research, AI&ML – Remidio, Bengaluru.**
- **Ms. Maanasi Mahalingam, Doctoral Research, University of Western Australia, Australia**
- **Dr. V Sampath Kumar, Dean Research and Faculty Entrepreneur, Christ College of Engineering, Kerala**

- **Mr. Daryl Newsome, Vice President, Association of British Dispensing Opticians, UK.**
- **Ms. Ashwini. P. Rao, Clinical Audiologist, Cochlear, South Zone, Bengaluru.**
- **Dr. Sundaresan, Head of the Department, Holycross, Trichy.**
- **Dr. Venkatalakshmi, Professor and Head, Department of Artificial Intelligence and Data sciences, Sri Krishna College of Engineering & Technology, Coimbatore.**
- **Prof.(Dr)J. Venkatachalam, Professor, Department of Psychology Periyar University, Salem**
- **Dr. Zeeshan ali, Associate Professor, Krupanudhi College of Physiotherapy, Bengaluru, Karnataka.**
- **Dr. Yuvaraj N, Associate Professor, Department of Information Security, School of Computer Science and Engineering, Vellore Institute of Technology, Vellore.**
- **Ms. Sindhusa Chandran, Assistant Professor, AIISH, Mysore.**
- **Dr. Lalita Raja, Assistant Professor, Centre for Advanced Studies in Linguistics, Annamalai University, Chithamparam.**
- **Mr. Vivek Sugauthan. R, Assistant Professor, SRM University, Chennai, Tamil Nadu.**
- **Dr. Sri Preethaa KR, Assistant Professor, School of Computer Science and Engineering, Department of IoT, Vellore Institute of Technology, Vellore, Tamil Nadu.**
- **Dr. Stephen Babu A, Assistant Professor/ Human Resource Trainer St . Joseph's University, Bangalore**



## REGISTRATION



**REGISTRATION LINK :**  
<https://forms.gle/tXo4qhzA6XxZw2n66>

## REGISTRATION FEE

- Indian Participants Rs. 750
- International Participants USD 25

## PAYMENT DETAILS

### BANK ACCOUNT DETAILS

**Account Name :** Avinashilingam  
Institute for Home Science and Higher  
Education for Women

**Name of the Bank :** Indian Bank

**Bank Account Number :** 6010310202

**IFSC Code :** IDIB000A005

**SWIFT Code :** IDIBINBBCBE

## AI ADVISORS

Dr. T. S. K. MEENAKSHISUNDARAM, Managing Trustee & Chancellor

Dr. V. BHARATHI HARISHANKAR, Vice Chancellor

Dr. H. INDU, Registrar i/c

## AIU ADVISORS

Dr. PANKAJ MITTAL, Secretary General, AIU

Mrs. RANJANA PARIHAR, Joint Secretary, Printing & Publications, AIU

## PROGRAMME COORDINATORS

Dr. P. SUBASHINI

Coordinator, Centre for Machine Learning and Intelligence

Professor of Computer Science

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Coordinator - School of Allied and Healthcare Sciences

Avinashilingam Institute for Home Science and Higher Education for Women

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## REACH US AT

Dr. K. RAMYA

Nodal Officer

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