

Indian Institute of Information Technology Dharwad



INDIAN INSTITUTE OF
INFORMATION
TECHNOLOGY

ORGANIZING TOPIC : Seven Days Accelerate
Vigyan (AV) On “Data Science and its
Applications in Health Technology”

DATE:
18/05/2022 – 24/05/2022



In collaboration with SERB
and DST.



ABOUT THE INSTITUTE

IIIT Dharwad is an Institute of National Importance set up in 2015 in Public-Private-Partnership mode between the Ministry of Education, Government of India, Government of Karnataka and industry partner Keonics under an Act of Parliament (23 of 2017). Presently Indian Institute of Information Technology Dharwad offers undergraduate programs in Computer Science and Engineering, Electronics and Communication Engineering, Data Science and Artificial Intelligence, and PhD programs in Computer Science and Engineering, Electronics and Communication Engineering, Mathematics, Physics and Statistics.

ABOUT THE DEPARTMENT

The Department of Data Science and Intelligent Systems was established in 2020 and presently has 9 faculty members. The faculty members focus on strengthening the skills of the students with knowledge in technology and engineering. The department consists of Artificial intelligence, Data science, Health technology, Statistics, English, Economics, and Mathematics which are the basic to overall development of the students. These courses enhance their ability to tackle challenges in academics and in their endeavors in research and career. The department also conducts research programs in all the fields to inculcate the spirit of research in the pedagogy.

ADDRESS FOR CORRESPONDENCE.

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MAIN CAMPUS

Indian Institute of Information
Technology Dharwad, Ittigatti
Road, Near Sattur Colony,
Dharwad, Karnataka – 580009

INTENDED AUDIENCE

Research Scholars, PG Students, IITs, NITs, universities, degree colleges, and other engineering colleges, participants from Government (Bureaucrats /Technicians/Industries, etc.) and Staff of the host Institution.

PATRONS

Prof. Kavi Mahesh,
Director

Prof. C B Akki,
Registrar

EVENT ORGANIZER

Dr. Ramesh Athe
Assistant
Professor,
Department of
Data Science &
Intelligent
Systems.

SPEAKERS:

Faculty members from reputed national/ international institutions like Mayo, MIT, IITs, NITs, IITs and industry experts will be delivering the sessions.

IMPORTANT DATES:

- Last date for Registration: 30.04.2022
- Only 25 participants on a first come first serve basis.
- Confirmation to the participants through Email: 04.05.2022

TA will be paid for sleeper class rail/bus fare through the shortest route. In order to make speedy payment, participants are required to bring the hard copy of the tickets.

REGISTRATION:

- Interested participants are required to register through the WEB portal.
- <https://forms.gle/6shPzm9wcAfe6YAm8>
- Participants' registration, attendance, feedback, assessment, and certificate will be taken care of.
- No registration fee for the participants
- TA, accommodation and food will be provided as per the norms of SERB & availability of funds.

ABOUT THE WORKSHOP

Advances and innovations in technology have changed many aspects of our living . Data and Health Technology are achievable only with such advances and innovations in technology. The adoption of technology in healthcare over the years has led to better diagnosis and treatment of patients. Our ability to store, share and analyze health information is directly tied to improved technology. The use of technology increases provider capabilities and patient access while improving the quality of life for some patients and saving the lives of others . This workshop is aimed at disseminating knowledge on such technological advances and challenges in healthcare needs.

TOPICS TO BE COVERED

- *Health Technologies: Overview and Challenges.
- *Introduction of Data Science (DS) in health technology .
- *Types of Data available in DS.
- *Machine Learning and Deep Learning techniques in DS.
- *Advanced Statistical Analysis in DS for health technology.
- *Predictive modelling for DS.
- * Mixed method approaches for DS.
- *Development of Protocols.
- *Introduction to Systematic Review (SR) .
- *Meta-Analysis (MA) in healthcare devices and technologies.
- *Introduction to Health Economics as a tool in healthcare technologies.
- *SR, MA and DS practical applications.

OBJECTIVE OF THE WORKSHOP

To plan and help in imparting quality technical education in the country and to support technical institutions in fostering research, innovation and entrepreneurship through training in various emerging scientific areas.