AI Innovations in Life Sciences, Biotech and Pharma Research: A Virtual Workshop

11-15 March, 2024

Organized by

Department of Biotechnology
Jaypee Institute of Information Technology
Sector 62 Noida

Convenors

Prof. Pammi Gauba

Prof. Rachana and Dr. Nidhi Batra

About JIIT

Jaypee Institute of Information Technology, Noida was established in the year 2001 and has been declared as a "Deemed to be University" under Section 3 of UGC Act 1956 in the year 2004. JIIT is a NAAC accredited, AICTE approved and NIRF ranked Institute and has continued to become a centre of excellence in emerging areas of science and technology.

About the Department

The Department of Biotechnology at JIIT, NOIDA, established in 2002, is committed to provide innovative teaching, learning, and a vibrant research environment. Faculty members with rich research exposure in academia and industry from national & international organizations, contribute to the departmental academic core.

Sessions

Day 1: 11 March, 2024 (2.00 -5.00 PM)
Session 1 : Introduction to AI in Biotech and Pharma: Foundations and Overview
Speaker: Dr. Kalaiarasan Ponnusamy, Assistant Director @ NCDC, MoHFW

Session 2: Current Landscape: AI Success Stories in Biotech and Pharma
Speaker: Dr. Kalaiarasan Ponnusamy, Assistant Director @ NCDC, MoHFW

Day 2: 12 March, 2024 (2:30 -5.00 PM)
Session 3: Translating Big Data: The Role of AI in Omics Research
Speakers: Dr. Raghavendran Lakshminarayanan, Bioinformatics Subject Matter Expert, Koita
          Centre for Digital Health, IIT Bombay
          Dr. Kshitij Jadhav, Assistant Professor, Koita Centre for Digital Health, IIT Bombay

Day 3: 13 March, 2024 (2:00 -5.00 PM)
Session 4: AI-Driven Drug Discovery: Accelerating Research and Development
Speakers: Prof. Latha Narayanan, Dean, School of Engg. and Applied Sciences, Bennett University
          Dr. Lipi Thukral, Principal Scientist, CSIR-Institute of Genomics and Integrative Biology,
          New Delhi
Session 5: AI assisted Scientific Writing and Publishing
Speaker: Dr. K. S. Sowmiya Rani, Editor, Editage Cactus communication, Speaker | Academic
          Writing Coach, Owner/Founder Sowmis_AWW

Day 4: 14 March, 2024 (2.30 -5.00 PM)
Session 6: AI and Clinical Trials
Speaker: Dr. Aditi Sharan, Associate Professor, School of Computer & Systems Sciences, JNU, New
         Delhi

Session 7: Ethical Considerations in AI Research and Implementation
Speaker: Dr. Aditi Sharan, Associate Professor, School of Computer & Systems Sciences, JNU, New
         Delhi

Day 5: 15 March, 2024 (2:00-5:00 PM)
Session 8: Hands-on Session (Chat GPT, Bing, Bard for academic writing, literature review, data
           wrangling, scientific programming)
Speaker: Dr. Raghavendran Lakshminarayanan, Bioinformatics Subject Matter Expert, Koita Centre
         for Digital Health, IIT Bombay

Registration

QR Code:

Last date of Registration: 09.03.2024

Registration fee

Students/Research Scholars/Faculty/Scientists/Participants from industry: Rs. 500/-.

Registration form: https://forms.gle/v1588aNFiYM71dY6A

Contact Details
Prof. Rachana: +91 9315434437
Dr. Nidhi Batra: +91 9711769395
Email id: bioinfoworkshop01@gmail.com

<u>Note</u>: Please keep your own laptop for hands-on training.
      Participation certificate will be awarded to each registered attendee

<p align="center" style="color:blue">Programme Schedule</p>

<p align="center">AI Innovations in Life sciences, Biotech and Pharma Research: A Virtual Workshop 2024
<strong style="color:blue">11-15 March, 2024</p>

Days	Topics	Time	Title/Speaker
DAY 1 (11-03-2024)	**Inauguration Ceremony**	**2-2:30 PM**	Inaugural Address by Honourable Pro-chancellor Prof S. C. Saxena Keynote address by Honourable Vice Chancellor Prof Bodh Raj Mehta
	Introduction to AI in Biotech and Pharma: Foundations and Overview	**2:30 – 3:30 PM**	**Topic: Introduction to AI and its applications in Bioinformatics and Biomedical Sciences** **Dr. Kalaiarasan Ponnusamy** Assistant Director @ NCDC, MoHFW
	Current Landscape: AI Success Stories in Biotech and Pharma	**3:30-4:30 PM**	**Topic: AI success stories in Biotech and Systems Biology** **Dr. Kalaiarasan Ponnusamy** Assistant Director @ NCDC, MoHFW
DAY 2 (12-03-2024)	**Translating Big Data: The Role of AI in Omics Research**	**2:30 – 3:30 PM**	**Topic: MultiOmics: Understanding the Journey from Sample to Digital Data** **Dr. Raghavendran Lakshminarayanan** Bioinformatics Subject Matter Expert, Koita Centre for Digital Health, IIT Bombay
		3:30-4:30 PM	**Topic: Novel Methodology for Multiomics data Integration** **Dr. Kshitij Jadhav** Assistant Professor, Koita Centre for Digital Health, IIT Bombay
DAY 3 (13-03-2024)	**AI-Driven Drug Discovery: Accelerating Research and Development**	**2:00 – 4:00 PM**	**Topic: Revolutionizing Drug Development using AI/ML** **Prof. Latha Narayanan** Dean, School of Engg. and Applied Sciences, Bennett University **Topic: How Alphafold is revolutionizing structural biology** **Dr. Lipi Thukral** Principal Scientist, CSIR-Institute of Genomics and Integrative Biology, New Delhi

	AI assisted Scientific Writing and Publishing	**4:00-5:00 PM**	**Topic: AI tools in scientific writing and publishing** **Dr K. S. Sowmiya Rani** Editor, Editage Cactus communication, Speaker | Academic Writing Coach Owner/Founder **S**owmis_AWW
DAY 4 (14-03-2024)	**AI and Clinical Trials: Enhancing Efficiency and Accuracy**	**2:30 – 3:30 PM**	**Topic: Clinical Text Mining** **Dr. Aditi Sharan** Associate Professor, School of Computer & Systems Sciences, JNU, New Delhi
	Ethical Considerations in AI Research and Implementation	**3:30-4:30 PM**	**Topic: Ethical issues and challenges for data mining in Clinical/Biomedical Domain** **Dr. Aditi Sharan** Associate Professor, School of Computer & Systems Sciences, JNU, New Delhi
DAY 5 (15-03-2024)	**Demonstration/Hands on Session** (Chat GPT, Bing, Bard for academic writing, literature review, data wrangling, scientific programming.)	**2:30 - 4:30 PM**	**Topic: GPT Models: An Introductory Guide for Researchers** **Dr. Raghavendran Lakshminarayanan** Bioinformatics Subject Matter Expert, Koita Centre for Digital Health, IIT Bombay
	Valedictory Session	**4:30-5:00 PM**	