



ACCELERATE
विद्युयान



One week National High End Workshop

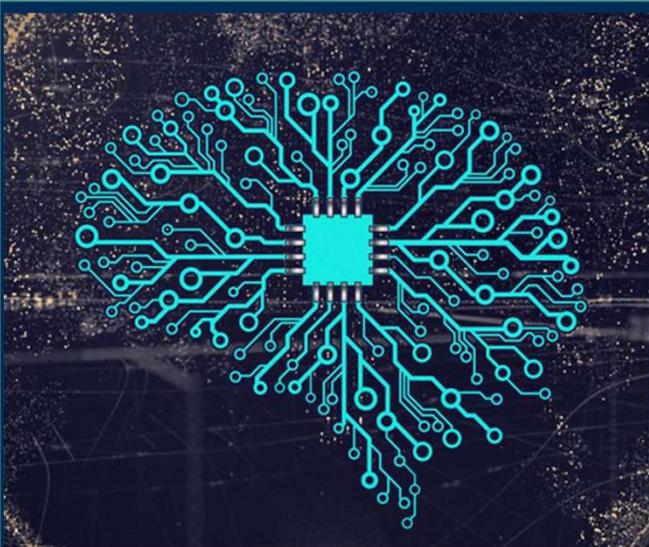
“Machine learning based approach for the identification of biomarkers and for drug discovery”

Under the KARYASHALA Scheme
A SERB Initiative
(12th Dec -18th Dec,
2022)

Funded by
Science and Engineering
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Under

Accelerate Vigyan Scheme



ORGANISER

Department of Biotechnology
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www.nitdgp.ac.in

The Department of Biotechnology, NIT Durgapur was established in 2005 with the B. Tech Biotechnology Program. The M.Tech program was subsequently introduced in 2009. In the year 2020, the department introduced a MSc in Life Sciences program.

The department consists of 17 faculties with diverse research backgrounds, engaged in teaching and research in applied biological sciences and bio-engineering. Faculty members are actively involved in projects, publishing high quality research articles, patents and have established collaborations with various national and international laboratories. It is equipped with extensive research facilities and infrastructure to develop cutting-edge technology through interdisciplinary research, training, and technical innovation.

PATRON

Prof. Anupam Basu
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CORDINATOR

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CONVENER

Dr. Debojyoti De
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Department of Biotechnology,
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About the workshop

Role of

AI & ML

in Drug and Biomarker discovery

Application data science AI and ML is revolutionizing the field of drug and biomarker discovery and is spearheading the research and development of new therapeutics globally.

Currently several healthcare companies and leading research laboratories worldwide are combining AI in 'Omics' along with scientific literature and robust validation to find robust clinically relevant genes and strong therapeutic targets. Our workshop is aimed to get a glimpse of the recent trends and some exposure towards applying various AI/ML based tools in handling multi-omics data and to also several downstream involving cell biology techniques for validation.



Identify harmful genes



Identify therapeutic target



Objective

- A thorough knowledge about the concept, background and assumptions of various AI/ML based techniques used in various drug and biomarker identification process.
- Familiarization of various tools and packages used in the process .
- Several cell and molecular biology techniques for target validation.
- Exposure to various qualitative and quantitative data analysis techniques.

Eligibility for participation

Karyashala is open to research scholars and post-graduate students from institutes, colleges, and universities.

Total 25 participants (No internal participants) will be selected to participate in this workshop. Preference will be given to students who have keen interest towards AI/ML and data science.

There is no registration fee for the participants. Travel, Food, and Accommodation (on twin sharing basis) will be borne by NIT DGP for the selected candidates (as per norms).

Important Dates

Registration Open

26th Oct 2022-17th Nov 2022

Shortlisting of candidates

18th Nov 2022

Workshop dates

12th Dec -18th Dec, 2022

Registration Link

<https://bit.ly/3TZkoAF>

Or
Scan to register



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