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Bio Solutions Pvt Ltd

Workshop Title: Integrating Machine Learning and AI for Biologists

Aim: *The workshop aims to empower biologists with foundational knowledge and basic practical skills in utilizing Machine Learning (ML) and Artificial Intelligence (AI) techniques to enhance their research and analysis capabilities.*

Duration: 2 Days

Location: **Online**

Target Participants

This workshop is aimed at faculty, post-doctoral fellows, researchers, students and technicians who wish to employ AI/ML methods in their work. Ph.D. students/Post-Doctoral Fellows/JRFs/SRFs/faculty involved in relevant research are eligible to apply.

Important Dates & Time	
Workshop Date: January 20-21, 2024	**Time:** 10:00 am – 10:45 am (15 minutes break) 11:00 am – 12:00 pm
Registration Ends: January 18, 2024 At Indian Standard Time 6:00pm	**Duration:** 1 hour 45 minutes/day, *with the possibility of a slight extension if required*

Registration:
Interested participants may visit www.negenome.com or click on this registration link: https://forms.gle/NkkCsJWZWoPvgx8s8

Fee Plan	
Student (INR: 450/-)	Ph.D. Scholar / Researcher (INR: 550/-)
Academician / Faculty (INR: 650/-)	Industry Professional (INR: 900/-)

10% Discount if you register before 08 January, 2024. Hurry up!!

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Workshop Outline:

Day 1: Introduction to ML and AI in Biology

Session 1: Understanding the Basics

- *Overview of AI, ML and Computational Methods*
- *Relevance of ML and AI in Biology*
- *Basic concepts: algorithms, models, and datasets*

Session 2: Applications in Biological Research

- *Brief about case studies showcasing successful applications*
- *Identifying research problems suitable for ML/AI*
- *Group discussion on potential applications*

Day 2: Hands-on Implementation and Advanced Topics

Session 3: Practical Implementation

- *Introduction to AI/ML for biologists (using various tools)*
- *Demonstrating comparative genome analysis methods.*
- *Using Image processing and computational methods.*

Session 4: Advanced Topics and Tools

- *Using Image Processing and ML for Animal Identification*
- *Using Image Processing for meiofaunal morphometry*
- *Overview of popular ML/AI approaches for biologists*

Teaching Methodology: Lectures, hands-on exercises, group discussions, Q&A sessions

Requirements for Participants:

- Basic understanding of biology concepts
- A laptop or computer with a stable internet connection
- Installation of required software (instructions will be provided in advance)

Outcome:

By the end of the workshop, participants should be able to:

- ✓ Understand the fundamentals of Machine Learning and Artificial Intelligence
- ✓ Recognize opportunities for applying ML/AI in their biological research

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- ✓ Implement basic ML models and analyze results
- ✓ Navigate ethical considerations and challenges in the application of ML/AI in biology

Deliverables:

- E-certificates will be issued to all participants within 5 working days of the workshop's conclusion.
- Access to recorded sessions for future reference and review.

If you have any questions or need further information, please don't hesitate to contact us at **contact@negenome.com/negenome@gmail.com**.

We look forward to having you at the Workshop on Integrating Machine Learning and AI for Biologists. Let's dive into the fascinating world of data analysis together!

Team NEGenome

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