

# Artificial Intelligence in Biology

## On 22<sup>nd</sup> June, 2023

Organized by: Department of Computer Science and Applications

### Report

The Department of Computer Science and Applications organized a Guest Lecture on 22<sup>nd</sup> June, 2023 on “Artificial Intelligence” by **Dr. Raviprasad Aduri**, Associate Professor in Dept. of Biological Sciences in BITS Pilani for First year & Second Year B.C.A Students.

#### Objectives:

Considering the growing importance of computers in different sectors, an awareness program is planned with the following objectives

- The main objective is to make students aware of AI concepts.
- To make students to understand various integration of AI for Biology Research
- DNA, RNA and Protein synthesis
- Scope for innovation and Skill Development



**Dr. Raviprasad Aduri**, Associate Professor in Dept. of Biological Sciences  
in BITS Pilani, K K Birla Goa Campus, India.

## **Topics Covered:**

The Lecture covers the following topics:

- Various applications of AI are used in biology, including the precise identification of the 3D geometry of biological molecules such as proteins which is one of the most critical tasks and useful in biological research.
- Artificial Intelligence in Drug Discovery
- AI can be used to predict the properties of a potential compound accurately.
- AI can help develop new compounds by creating molecules with properties predicted for success, which could dramatically improve the discovery and development of effective new drugs.
- Employing AI in the drug discovery process can eliminate repetitive tasks when assessing a drug's effectiveness
- It's also important to stay updated with the latest technologies and certifications as the field is constantly changing.



## Conclusion & Outcome

By this guest lecture, the students were able to

- Gain a deeper understanding of the basic concepts of Artificial Intelligence
- Gain a deeper understanding of the various concepts of Artificial Intelligence in Biology
- Explore the most common applications being experimented
- Learn the theoretical limits on the possibilities of AI

No of Students Participated: 120

Faculty Members involved are:

1. P. Ravindra, HOD of Department of Computer Science
2. M. Kala Devi
3. K. Sree Lakshmi
4. A. Aruna

## INVITATION

ISO 9001:2015  
KAKRAPARTI BHAVANARAYANA COLLEGE  
NAAC 'A' GRADE CYCLE 3  
(Sponsored by S.K.P.V.V. Hindu High Schools' Committee), Kothapeta, Vijayawada - 520001, (AUTONOMOUS)  
A College with Potential for Excellence (CPE). All India 92<sup>nd</sup> Rank in NIRF by MHRD (2017).  
Recognized as Band PERFORMER in ARIIA by Ministry of Education, Govt. of India

*Invitation*

You are Cordially invited to the Guest Lecture of

# AI in Biology

for BCA Students

22<sup>nd</sup> June, 2023 @ 10 A.M.

Venue: UG Seminar Hall.

Chief Guest

## Dr. Raviprasad Aduri

Associate Professor  
Department of Biological Sciences  
BITS Pilani, K K Birla Goa Campus

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Department of Computer Science