



Ajeenkya D Y Patil University

D Y Patil Knowledge City, Charholi Bk. Via Lohegaon, Pune – 412 105 (MH) INDIA

FACULTY PROFILE



NAME: RANJIT KUMAR

DESIGNATION: Assistant Professor

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QUALIFICATION: M.Tech (Bioinformatics), Phd (Pursing)

BIOGRAPHY

Ranjit Kumar is an accomplished academician and researcher currently serving as Assistant Professor at the School of Engineering, Ajeenkya D Y Patil University (ADYPU), Pune. With a solid background in bioinformatics, biotechnology, and computational biology, he has contributed extensively to both academia and industry. Before joining ADYPU in 2022, he held key research positions at reputed institutions such as the National AIDS Research Institute (NARI), IIT Bombay, and AIIMS Delhi. At ADYPU, he is also the Faculty In-Charge of the Research and Innovation Committee, guiding students through research projects, publications, and innovation-based learning. His core research areas include molecular modeling, drug design, medical informatics, and applications of artificial intelligence in life sciences. Ranjit Kumar has published widely in peer-reviewed journals and holds several patents related to bioinformatics and healthcare technologies. He has received prestigious awards such as the Young Researcher Award 2023 from the Ministry of MSME, Government of India, and an appreciation certificate from DST-CPR, IISc Bangalore. In addition, he is actively involved with IEEE, serving as Secretary of the IEEE Bombay Section Affinity Group and as an Entrepreneurship Ambassador for IEEE Region 10. Through his interdisciplinary approach and commitment to academic excellence, Ranjit Kumar continues to make significant contributions to research, education, and innovation.

Students Project Guided: BE/ME/PhD

B.Tech (Biotechnology): **Guided 3 final-year project groups** in the areas of bioinformatics, cheminformatics, systems biology, health informatics, and medical informatics.

CORE COMPETENCY AREAS:

Bioinformatics, computational biology, cheminformatics, drug discovery and molecular modeling, health informatics, medical informatics, omics technologies (genomics, proteomics, systems biology), project-based learning, curriculum development, research coordination, scientific writing, and IEEE professional activities.

PUBLICATIONS:

1. The Perilous Repercussions of Plastic Bags on Health, as well as the Prevailing Sentiment of the Populace towards Alternative Options, Sheetal Barde, Sheela Upendra, Jasneet Kaur, Ranjit Kumar, Universal Journal of Public Health.

2. Enhancing Predictive Power in Personalized Breast Cancer Treatment through the Integration of Multi-Omics Data and Clinical Information with Deep Learning Models AVarpe, Bhujbal, Ranjit Kumar, IEEE conference, 2024 MIT Art, Design and Technology School of Computing International Conference, MITADTSoCiCon 2024

3. AI-Enhanced Approaches to Gout Management: Understanding Hyperuricemia and Optimizing Therapeutic Interventions, Rohan Malhotra, Tsono-Ngatse, M.J., Kumar, Ranjit Kumar, IEEE conference, 2024 MIT Art, Design and Technology School of Computing International Conference, MITADTSoCiCon 2024

4. Forensic Genetics Genealogy-The Genetic Blueprint: Dissecting the Interplay of Relationship Inference,

Database Accessibility, and Ethical Concerns in Forensic Genealogy, Chauhan, Ranjit Kumar, IEEE conference , 2024 MIT Art, Design and Technology School of Computing International Conference, MITADTSoCiCon 2024

5. Towards holistic well-being: Understanding mental health in India through student perspectives, Ranjit, A., Dash, Aiswarya, B., Champaty, Biswajeet, Sheetal barde, AIP, AIP Conference Proceedings

PROFESSIONAL BODY MEMBERSHIP

IEEE (Institute of Electrical and Electronics Engineers)

