ਸੇਂ⊮ਦਿਖੋucational Institutions [®] RV College of Engineering [®]



Autonomous Institution Affiliated to Visvesvaraya Technological University, Belagavi Approved by AICTE, New Delhi, Accredited By NAAC, Bengaluru And NBA, New Delhi

Co change the good

Industry Certified Internship

Centre of Excellence in Computational Genomics

Certification by Intergene Life Sciences

Internship Modules for Engineering students

SI No	Multiomics study	Diagnosis and Drug discovery	AI/ML in lifesciences
1	Milk metagenome analysis for designing potential postbiotics for neonates	Anti-sense oligo (ASO) nucleotides in drug discovery	Personalized medicine using AI/ML
2	Metagenomic and metabolic profiling to identify novel biomarkers for detecting Poly cystic ovarian syndrome	Formulation design for ASO	Prediction using AI/ML model for selection of population in Mulberry for crop improvement
3	Developing a dog breed detection kit using novel biomarkers	Design of anti-cancer peptides targeting Frizzled proteins	Develop a reinforcement learning-based algorithm to identify lead molecules by emulating ligand-protein interactions
4	Pan genome and transcriptomic analysis of Aedes aegypti	Building novel pharmacophore to screen P-glycoprotein substrate	Machine learning models to prioritize optimal parameters of predicted ADME and Toxicity data
5	Antimicrobial resistance surveillance	Design of DNA/RNA based aptamers for detection of Mycobacterium Tuberculosis	To develop a regression based Quantitative structure property relationships model for Caco-2 cell permeability.
6	Soil/Plant metagenome analysis	Enzyme-Linked Aptamer Assay (ELAA) based peptide aptamer design for detection of Mycobacterium Tuberculosis	ML model for antiviral peptide predictions using Generative Adversarial Networks
7	Chemogenomic analysis of Bombyx mori	Docking studies for AP-2α2 transcription factor against given set of ligands as an alternative approach for targeting DLEC1 breast cancer gene	Developing an AI/ML model for prediction of LC50 values of given compounds
8	Metagenome /Metaproteome analysis and mapping	Build and validate novel pharmacophore model for anti- inflammatory and anti-cancer compounds	A computational pipeline to predict Drug Induced Liver Injury
9	Developing a novel pipeline for detection of markers using alternative splicing and exome analysis	Developing a pharmacophore & QSAR model for screening human proteome	Developing a linear discriminant analysis model for screening pharmaceutical compounds with hERG

		inhibitory activity
10	Genotyping by sequencing for Soybean	Developing database for Aedes aegypti proteome
11	Socks metagenome analysis	
12	Transcriptome analysis of ovarian cancer for identification of novel biomarkers	
14	Identification of phytochemotherapeutic targets for cancer (any type)	

For Further Information Contact:

Dr. Vidya Niranjan Professor and Head, Biotechnology Email ID: vidya.n@rvce.edu.in Mobile: 9945465657