CRISPIN JOE KENSLIN A

crispinjoekens004@gmail.com | +91 6379865120
https://crispinjoekenslin-25.github.io/profile/
LinkedIn | GitHub

PROFILE SUMMARY

Motivated biotechnology undergraduate with a strong focus on bioinformatics, computational tool development, and artificial intelligence–based analysis. Experienced in applying molecular docking, molecular dynamics, and machine learning techniques to biological data. Keen to integrate data science and algorithmic approaches to advance structure-based drug discovery and genomic research.

EDUCATION

Tamil Nadu Agricultural University
B.Tech Biotechnology
Current OGPA : 8.90
Expected June 2026
Coimbatore, Tamilnadu, India

Sacred Heart Convent Anglo Indian Higher Secondary School
Total : 543/600
May 2022 | Villupuram, Tamilnadu, India

COURSEWORK

Bioinformatics
- Structural Bioinformatics
- Tools and Databases
- Molecular Docking
- Molecular Dynamics Simulation
- Pharmacogenomics
- R, Perl, Shell
- Data analysis and Visualization

Biotechnology
- Molecular and Cell Biology
- Recombinant DNA Technology
- Plant Tissue Culture
- Plant Genetic Transformation
- Bioprospecting and Molecular Pharming
- Molecular Genetics
- Agriculture and related subjects

SKILLS

Programming
R • Shell • Python • Perl C • HTML(basic) • Git • Github

Bioinformatics
- Molecular Docking
- Molecular Dynamics Simulation
- Statistical and Computational Data analysis
- Protein Visualization
- Drug analysis (ADMET)
- Sequence alignment and analysis
- Machine learning

RESEACH INTERESTS

Molecular Docking • Molecular Dynamics Simulation • Computational Data analysis • Drug Discovery Machine learning • Artificial Intelligence

INTERNSHIP

- National Centre for Biological Sciences (**NCBS**)
  December 2025 - January 2026 | Bangalore, KN

ACADEMIC ENGAGEMENTS

2024	Ecofest'24 - International conference on sustainability
2024	Biocomcorrenza'24
2022	Bioconcorreza'23

RESEARCH

- **Molecular Docking Studies** (Protein-ligand analysis | 2025 | TNAU)
  Performed Molecular docking of multiple targets of SARS COV 2 against phytochemicals of Oenothera biennis and performed molecular dynamics simulation for the best compounds
- **Web application for data clustering using R and Shiny** (Data Clustering Analysis | 2025 | TNAU)
  Developed a web application using R and Shiny with an easy to use interface that performs data clustering with multiple algorithms and methods, provides publication-ready plots and diagrams and a detailed report on the analysis with clear interpretations and further prospects.
- **Transcription Factor Finder** (TF Finder Pro | 2025)
  A web based Transcription finder application that accepts DNA sequences and finds the sites of transcription factors and output into a visual diagram and table format which can be downloaded.(Link)
- **Tumour Prediction Model** (ML model | 2025)
  Developed a beginner-friendly machine learning model, *TumorModel*, using Scikit-learn's RandomForestClassifier to predict tumor presence from gene expression data sourced from Kaggle's Genomic Data for Cancer. (GitHub link)

AWARDS

- 2024 - Best Poster Presentation Ecofest'24 - International conference on Sustainable synergy – "Predictive analysis using data models"
- 2022 - Subject Topper Class 12 Board Exam

CERTIFICATIONS

- Experimental Biotechnology - NPTEL – IIT Guwahati - 12-week course – Elite Certificate – 69%
- Nanotechnology in Agriculture - NPTEL (IIT Kanpur) – 8-week course – Elite Certificate – 73%
- Machine Learning I - Columbia+ Online - Columbia University

EXTRA-CURRICULAR SKILLS

- Overall Organizing secretary - National Science Day 2025 (Bioconcorrenza'25)
- Class representative - 2023 to 2024
- Music production and instruments - participated in multiple competitions
- Photo and Video Editing - Adobe suite, Canva, Affinity, DaVinci Resolve