

SIRIL FRANKLIN A

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PROFILE

A highly motivated Bioinformatics undergraduate with a strong passion for integrating technology and life science. Expertise spans web development, molecular docking, and machine learning-based drug discovery, with hands-on experience in both academic research and personal projects. Then committed to creating innovative, impactful solutions through a blend of computational skills and scientific knowledge, and actively seek opportunities to grow and contribute in dynamic, interdisciplinary environments.

SKILLS

- Web Development (HTML, CSS, JavaScript)
- Molecular Docking
- Machine Learning (XGBoost, LGBM, RandomForest)
- Bioinformatics Tools
- Database Management (MySQL)
- Programming
- Communication
- Team Work

PROJECTS

Drug Designing Using Machine Learning

Academic Project | 2023 – 2024

- Developed predictive models to estimate pIC50 values for EGFR inhibitors using molecular descriptors from canonical SMILES.
- Applied algorithms including XGBoost, LGBM, and RandomForest.
- Contributed to the advancement of targeted cancer drug discovery.

Smart Alcoholic Monitoring System

Web Development Project | 2024

- Created a biometric web-based system to identify underage alcohol consumption using fingerprint recognition.
- Integrated Aadhaar-linked data for real-time monitoring and secure identification.

EDUCATION

B.Sc. Bioinformatics

Bishop Heber College, Bharathidasan University, Trichy, Tamil Nadu
2022 – 2025 | CGPA: 8.0/10

Diploma in Bioanalytical Techniques

Bishop Heber College, Bharathidasan University, Trichy, Tamil Nadu
2022 – 2023 | CGPA: 3.59/4

Higher Secondary School (HSC)

Lakshmi Matriculation Higher Secondary School, Manapparai, Tamil Nadu
State Board | 2020 – 2022 | Percentage: 83%

ACHIEVEMENTS

- Photography Enthusiast
- Active in Sports
- Member of Organizing Committees for college events