

Reegina Tyagi

+91-8475843330

tyagi.reegi99@gmail.com
linkedin.com/in/reeginatyagi

Education

- **Indraprastha Institute of Information Technology, Delhi** 2024
M.Tech (Computational Biology) CGPA: 7.65
- **Sardar Vallabhbhai Patel University of Agriculture and Technology, Modipuram, Meerut** 2021
B.Tech (Biotechnology) CGPA: 8.13
- **Dewan Public School, Meerut** 2017
12th CBSE Percentage: 83.16

Experience

- **Developing Machine Learning Models For Prediction Of The Folding Rates Of Proteins And Peptides.**
Guide: Dr. N. Arul Murugan, IIITD (<https://bit.ly/3Wh49BK>) January,2023 - May,2024
 - Extracted features from protein sequences using Pfeature.
 - Applied Graph Signal Processing to represent protein structures.
 - Performed Molecular Dynamics simulations with Amber23.
 - Built and trained ML models for accurate folding rate predictions.
 - Integrated sequence data and simulation results.
- **Identification of Prognostic Biomarkers For Cancer Survival Risk Prediction Using lncRNA Expression.**
Guide: Dr. G. P. S. Raghava, IIITD (<https://bit.ly/4bZ4TRU>) June,2022 - August,2022
 - Processed RNAseq data from TCGA using R packages.
 - Conducted survival analysis to determine hazard ratios and concordance index.
 - Created prognostic indexes and voting models.
 - Implemented regression models using sklearn.
 - Performed fivefold cross-validation for model evaluation.

Personal Projects

- **Sentiment Analysis of Customer Reviews for Cosmetic Brands from Google Play Store.**
(Performed for practice purposes) (<https://bit.ly/4cKIp8q>) May,2024 - June,2024
 - Extracted customer reviews from Google Play Store.
 - Analysed sentiments using TextBlob.
 - Cleaned and transformed review data
 - Build deep learning model (LSTM & GRU).

Technical Skills and Interests

- **Technical Skills:** Python, R, SQL, Pandas, NumPy, Matplotlib, Scikit-learn, Data Wrangling, Data Visualization, Machine Learning, Statistics, Power BI, Microsoft Excel, Jupyter, SummarizedExperiment, limma, survival (R package).
- **Soft Skills:** Communication, Critical Thinking, Problem Solving, Adaptability, Documentation, Presentation.
- **Hobbies and Field of Interest :** Reading, Writing, Volunteering, Learning Data Analytics, Business Analytics.

Positions of Responsibility

- **NSS Coordinator, SVPUAT** July, 2017 - July,2021
- **Teacher's Assistant, IIITD** January, 2022- December, 2023

Achievements

- **DBT-GAT-B Qualified** 2021
- **UPCATET Qualified** 2021