

# Reegina Tyagi

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## 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

12<sup>th</sup> 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.

(<https://bit.ly/4cKlp8q>)

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
- Teacher's Assistant, IIITD

July 2017 - July 2021

January 2021 - December 2023

## Achievements

- DBT-GAT-B Qualified
- UPCATET Qualified

2021

2021