

## 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 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.[https://github.com/ReeginaTyagi/Protein\\_fold-rate\\_prediction](https://github.com/ReeginaTyagi/Protein_fold-rate_prediction)
- **Identification of Prognostic Biomarkers For Cancer For Survival Risk Prediction Using lncRNA Expression.**  
Guide: Dr. G. P. S. Raghava, IIITD 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.<https://github.com/ReeginaTyagi/Predicting-survival-risk-in-hnsc-carcinoma>

### Personal PROJECTS

- **Sentiment Analysis of Customer Reviews for Cosmetic Brands from Google Play Store.**  
(In This Project We have used google-play-scraper, TextBlob and NLP to practice sentiment analysis) 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).[https://github.com/ReeginaTyagi/Sentiment-Analysis\\_of\\_Customer-Reviews\\_for\\_Cosmetic-Brands](https://github.com/ReeginaTyagi/Sentiment-Analysis_of_Customer-Reviews_for_Cosmetic-Brands)

### 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