

Education

IIT Madras **August 2021 – Present** **CGPA: 8.72**

- **Doctor of Philosophy:** AI/ML for Biotechnology
- **Teaching Assistant:** Big Data and Biological Networks, Multivariate Data Analysis, Industrial AI Laboratory, Programming for Biological Engineers, Bio-process Control, Current Topics in Synthetic Biology

NIT Calicut **August 2017 – May 2021** **CGPA: 9.08**

- **Bachelor of Technology:** Biotechnology ([Gold Medalist](#))
- **Core Courses:** Bioinformatics, Bio-signal Processing, Biostatistics, Bioreactor Design and Analysis

Professional Experience

Teaching Assistant **ACM – RBCDSAI Summer School** **July 2022 - July 2022**

- Python coding tutorials on neural networks and its variants

Research Intern **Boltzmann Labs, Bangalore** **June 2020 - Nov 2020**

- [MolPro](#): Open Source Python package to accelerate drug discovery using deep learning algorithms
- [Protein-Ligand Binding Site Prediction](#): Binding site prediction for different drug targets given a ligand

Research Intern **Swagene, Chennai** **April 2019 - July 2019**

- **Precision Medicine:** Research and Development into novel molecular diagnostics focusing on cancer
- Executed research projects critically and collaborated with labs while maintaining precise documentation.

Technical Skills

- **Programming Languages:** C++, Python, R, awk, MATLAB
- **Libraries and Frameworks:** PyTorch, pytorch-geometric, Keras, scikit-learn, NLTK, networkx, Django, REST
- **Miscellaneous:** Linux OS, Git

Experience

Academic Projects

- **Cancer sub-type prediction using histopathology images:**
 - FIGO staging of ovarian cancer histopathology images (**Manuscript under preparation**)
- [Differential Expression Analysis between fetal and adult brains:](#)
 - RNA-seq data re-analysis workflow to evaluate differential gene expression between fetal and adult brains.

Publications/Presentations

- **CoSMEL - A transformer based approach to build context-specific metabolic models**
 - Presented at [30th Conference on The Intelligent Systems for Molecular Biology \(ISMB\)](#), Madison, USA
- **Chemically Interpretable Molecular Representation for Property Prediction**
 - Presented at [31st Conference on The Intelligent Systems for Molecular Biology \(ISMB\)](#), Lyon, France
- **Chemically Interpretable Molecular Representation for Property Prediction (Best Paper) (Best Poster)**
 - Published in the proceedings of the [3rd Conference on Deployable AI, 2023](#)
- **BioBigBird: Leveraging Long Articles for Biomedical Language Understanding**
 - Under review EMNLP 2023
- **Dense Biomedical and Scientific Information Retrieval using Generative Pseudo Labelling**
 - Under review EMNLP 2023

Positions of Responsibility

- **Organizer and Reviewer:** [GCLR Workshop 2023](#) at Thirty-Seventh AAI Conference on Artificial Intelligence
- **Research Legislator:** Department of Biotechnology, IIT Madras
- **Mentor:** [Teach in 10](#), IIT Madras
- **Member:** [RBCDSAI](#) and [IBSE](#), IIT Madras
- **Technical Affairs Secretary:** School of Biotechnology, NIT Calicut (Aug 2018 - Aug 2019)