YESHASWINI RADHAKRISHNAN

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**EDUCATION**

## Master of Science in Bioinformatics July 2026

*Northeastern University, Boston, Massachusetts, United States* GPA 4.0

With Coursework in: Genomics in Bioinformatics, Computational methods in Bioinformatics, Bioinformatics Programming.

## Bachelor of Engineering in Biotechnology August 2024

*Rashtreeya Vidyalaya College of Engineering, Bangalore, India*  GPA 3.8

Graduated as the Best Outgoing Student

With coursework in: Pharmaceuticals, Nanobiotechnology, Bioinformatics.

**TECHNICAL SKILLS AND CERTIFICATIONS**

Programming Languages : C, R, Python, Bash, SQL

Web Applications : MS Office, LaTeX, Windows, Linux

Bioinformatics and Biology Skills : Schrodinger, Auto dock, Galaxy, Western Blotting, Flow Cytometer, PCR, Elisa

Certifications : Merck Life Sciences - Industry Academia Training (bioinformatics, microbiology, proteomics, and genomics) , Harvard Cell Biology and Mitochondria

**PROFESSIONAL EXPERIENCE**

**Research Assistant** September 2024 - Present

*The Ondrechen Research Group*

* Led **bioinformatics research on RNA and protein structural conformations,** optimizing GRASP FUNC to improve protein superfamily molecular interaction predictions.

**Omnichannel Intern**  January 2024 – July 2024

*Eli Lilly And Company*

* Provided **key insights into U.S. commercial marketspace** of clinical trials, improving drug strategy planning.

**Research Intern and Project Lead** July 2023 – January 2024

*Center of Excellence – Computational Genomics*

* **Designed a PCOS detection kit** by identifying novel genetic markers and generating **in silico primers**, leading to a **PCOS swab detection kit currently in testing at Aster Hospitals**.
* Developed a publicly available tool that integrates the UniProt and IUPRED scoring algorithms to find highly disordered areas in protein sequences.
* Oversaw a Reactome investigation on the immunogenicity of several species, identifying conserved amino acid sequences important for immune system function.

**ACADEMIC PROJECTS**

**Microbial Review & Nanoparticle Drug Delivery Systems** May 2023- August 2023

*Rashtreeya Vidyalaya College of Engineering* ([Publication 1](https://ijsrem.com/download/lactobacillus-plantarum-a-potential-health-booster-a-comprehensive-review/), [Publication 2](https://ijsrem.com/download/nanoparticle-based-drug-delivery-systems-for-targeting-tumor-micro-environment/))

* **E**xamined Lactobacillus plantarum's potential for probiotic and industrial uses while analyzing its stress resistance mechanisms**.**
* R**eviewed a nanoparticle-based drug delivery model** for **targeting tumor microenvironments** through computational simulations.

**RVSAT : India’s First Microbiological Payload** August 2021 – August 2023

*Team Antariksh, RVCE*  ([IAC’22 Paris, Presentation 1](https://iafastro.directory/iac/paper/id/70705/summary/), [IAC’22 Paris, Presentation 2](https://iafastro.directory/iac/paper/id/69928/summary/))

* Conducted **microbial viability studies** in **simulated space conditions**, validating survivability for extended missions.
* Spearheaded research into India’s space policy and contributed to a better understanding of Spaceflight-Associated Neuro-ocular Syndrome (SANS) in astronauts.