

# Ranya Jain

Boston, MA | jain.ran@northeastern.edu | 617-238-8057

LinkedIn 

## Education

Northeastern University, Boston MA: Candidate for B.S. in Data Science, Ecology & Evolutionary Biology

*Relevant Course Work:* Adv. Programming with Data, Biostatistics, Intro. to Databases

*Honors:* Dean's List (GPA: 3.7)

*Class of 2028*

American College of Thessaloniki, Greece: Study Abroad – N.U.in Program

*Fall 2024*

## Skills

*Technical:* Python (Pandas, Matplotlib, NumPy, Xarray, Machine Learning (basic)), SQL, R, Java, HTML

*Tools:* Jupyter, Github, Visual Studio Code, MS Office, Google Suite, Adobe Suite

*Laboratory:* Gel electrophoresis, qPCR, DNA Extraction, Spectroscopy, Microbiology, Lyophilization

*Languages:* English (Native/Fluent), Hindi (Native/Fluent), French (Conversational), Arabic (Basic)

*Certifications:* CodePath Applied AI Engineering (2026), CodePath Technical Interview Prep (2025), PADI Open Water Advanced Diver (2023), DELF French – A1, A2, B1 (2023)

## Experience

Undergraduate Researcher - Northeastern University, *Boston MA* Sep 2025 – Present

- Secured \$900 LamP-funded project analyzing 1980–2020 high-resolution daily SST data using Python.
- Computed ocean thermal memory timescales via detrending and autoregressive modeling on NCAR JupyterHub.

Research Intern - Lotterhos Lab, Northeastern Marine Science Center, *Nahant MA* June 2025 – Sep 2025

- Processed and phenotyped 100+ oyster tissue samples for disease ecology research.
- Set-up qPCR assays to detect disease presence in oyster tissue samples.
- Analyzed and visualized genomic data in Python, including synteny plot generation.

Interdisciplinary Lab Meeting Program - Gatins Lab, Northeastern University, *Boston MA* Sep 2024 – Apr 2025

- Presented and discussed ecological research papers; awarded \$500 stipend by the Inclusive Impact Innovation Fund.

Intern - Trade Credit Insurance, Malakut, *Dubai UAE* Jun 2024 – Aug 2024

- Rotated across marketing, accounting, and sales teams in trade credit insurance operations.
- Performed risk analysis, financial reporting, developed Excel models and engaging sales pitch decks.
- Awarded \$1,400 bonus on completion for exemplary performance.

Founder - Blue Crew Marine Conservation Club, *Dubai UAE* Dec 2023 – Jun 2024

- Founded and led a 10+ member marine conservation club, providing vision, direction, and team coordination.
- Organized events with Emirates Marine Environmental Group, planted 100+ mangrove saplings along the UAE coast.

## Volunteering

Penpal - Letters to a Pre-Scientist, *USA* Sep 2025 – Present

- Mentoring a middle-school student through monthly letters, sharing STEM experiences, guidance and encouragement.

Organizing Staff - sySTEMic Flow STEM Fair, *Boston MA* Mar 2025

- Streamlined event logistics and encouraged 200+ girls explore STEM through hands-on activities & challenges.

**Other Active Roles:** Tutor – Knack, Member – Rewrite the Code, Writer and Junior Web Developer – NUSci Magazine, Member – NURover Life Detection Team, Notetaker – Northeastern Disability Access Services

## Research & Projects

- Global Waste Analysis (Python):* Analyzed GDP, population, and MSW data to identify correlations and national-scale drivers of waste output.
- Temperature Effects on PLA Recycling:* Investigated temperature-dependent chemical breakdown of polylactic acid.
- Glucose Concentration and Pichia pastoris Growth:* Explored yeast biomass yield across 2–30% glucose; measured OD600 and analyzed growth trends.

**Interests:** Graphic Design, Writing, Travel, Community Service, Photo/Video Editing, Web Development, Movies