Nupur Divekar

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EDUCATION

Boston University – College of Arts and Sciences   May 2025
Double Major: *B.A. Computer Science*   GPA: 3.38
               B.A. Biology

SKILLS

- Computer: Python, Java, Assembly, C, Git, HTML, CSS, JavaScript, SQL
- ML/AI: Predictive Modelling and Training, TensorFlow, Keras, CNN

PROJECTS

- Developed "ViBraille", an innovative OCR-based Braille conversion system integrating Raspberry Pi and Arduino, enhancing text accessibility for the visually impaired.
- Trained a CNN for classifying plant leaves as healthy or diseased for agricultural use.
- Engineered a calculator in Assembly for arithmetic operations.
- Crafted a Python program to automate connect-4 gameplay

WORK EXPERIENCE

Rezolut Infotech, Mumbai, India   July 2023-August 2023
Web Development Intern
- Optimized SQL queries and database schemas in a PostgreSQL database, leading to a 40% improvement in query performance for critical business reports.
- Led the development of new web plugins and frameworks, enhancing application functionality using React and Node.js
- Implemented techniques to increase the online presence and brand awareness.

Agganis Arena, Boston, MA   June 2022-Present
Operations Assistant
- Directed teams for execution of logistical requirements to prepare for arena events, conducted training for new hires regarding workplace safety and common tasks.
- Interviewed job applicants seeking compatible employees for the workplace and upcoming events.

Artificial Intelligence and Emerging Media (AIEM) group, Boston, MA   September 2023 – Present
Research Assistant
- Analyzed 200 AI-generated headlines and images for racial and gender biases, focusing on professional role allocations and utilizing sentiment analysis and a 4-part codebook.
- Employed Python libraries for robust data analysis, crafted detailed graphs for data visualization, and utilized confusion matrices to quantify the performance of predictive models, significantly contributing to the research's accuracy and reliability.

Boston University, Tele-Fundraiser, Boston, MA   May 2023 – July 2023
Employee
- Developed and maintained strong relationships with Boston University alumni to facilitate the philanthropic reach of the university through fundraising efforts.
- Applied skills in public speaking and customer service to effectively communicate with alumni and promote the university's fundraising initiatives.

LEADERSHIP AND VOLUNTEERING

Xenocratic Model United Nations   July 2019
Executive Board Member & Chairperson of DISEC
- Elected amongst 13 students as the Executive Board Member.
- Developed study guides, moderated debates, conducted training sessions, and provided guidance to delegates during committee meetings.

AWARDS/CERTIFICATIONS & INTERESTS

- Grace Hopper Celebration of Women in Computing – Scholar 2023
- **Interests:** Indian Classical, Dancing, Karate, Scuba Diving, Animal Rescue.