

Patralika Ghosh

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Education

Texas A&M University

Bachelor of Science, Computer Science. GPA: 3.883

Relevant Coursework: Introduction to Program and Design Concepts, Data Structures and Algorithms, Computer Organization, Principles of Statistics I, Discrete Structures of Computing, Linear Algebra, Programming Languages

Awards: Dean Honor Roll

College Station, TX

May 2025

The Heritage School

High School Diploma

Kolkata, India

May 2025

Experience

Texas A&M University NeuroErgonomics Laboratory

Undergraduate Research Assistant

College Station, TX

Aug 2022 – Jun 2023

- Conducted experiments to study Human-robot interaction in emergency response environments using a virtual environment.
- Processed electrocardiogram data to detect trust in robots using heart rate variability (HRV), cross recurrence quantification analysis (CRQA) and the Neurokit library in Python.
- Contributed as a co-author in research paper.
- Presented findings at the Houston HFES Conference.

Texas A&M University

Peer Mentor

College Station, TX

Aug 2023 – Dec 2023

- Guided incoming freshmen through their transition to Texas A&M University.
- Promoted inclusive and positive interaction among mentees.
- Addressed concerns and provided guidance on both academic and personal matters.

Leadership & Activities

TAMU Robomasters

Supply Chain Team

College Station, TX

Feb 2022 – May 2022

- Successfully conducted a comprehensive team inventory, meticulously cataloging and optimizing resources.
- Demonstrated strong financial acumen by crafting a precise and efficient event budget, resulting in seamless execution and cost savings.

Python for Data Science and Machine Learning Bootcamp Certification

Udemy

May 2021

Publications

All Human Versus Human-Robot Teaming: Measuring Neurophysiological Synchrony, Team Performance, and Trust during Search and Rescue

Aakash Yadav, **Patralika Ghosh**, Malik Rawashdeh, Diane Lee, Thomas Bolf, Ranjana K. Mehta

HFES 67th Annual Meeting

Skills & Interests

Technical: HTML, CSS, Python Programming Language, Java Programming Language, C++ Programming Language, NumPy, Pandas, Seaborn, Matplotlib, GitHub

Language: English (Advanced), Bengali (Advanced), Hindi (Advanced)

Interests: Photography, Rock Climbing, Swimming, Table Tennis