

# Ananya Bhide

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## Education

**Birla Institute of Technology and Science, Pilani (BITS)**

B.E. (Hons.) Computer Science

GPA: 8.27/10.00

Oct 2022 – Aug 2026

(Expected)

## Internships

**Research Assistant**

*BrainLENS, University of Connecticut*

Connecticut, USA

(Ongoing)

- Conducting EEG-based human-centered research with 100+ participants.
- Studying reading anxiety and developmental dyslexia by integrating neural and behavioral data.

**Research Intern**

*BiNN Labs, BITS Goa*

Goa, India

Aug 2024 - May 2025

- Designed a personalized human-interpretable medical diagnosis system with an emphasis on accessibility.
- Facilitated interdisciplinary discussions by founding and organizing the lab's "Chatting About AI" forum.

**Research Intern**

*Cognitive Neuroscience Lab, BITS Goa*

Goa, India

May 2024 – Dec 2024

- Analyzed behavioral data from 100+ participants in a memory retention study using self-reported measures.
- Examined applications of cognitive neuroscience in educational contexts using empirical user data.

**AI/ML Intern**

*RI Equation LLP, Pune*

Maharashtra, India

May 2024 – Jul 2024

- Developed reinforcement learning traffic signal control systems.
- Simulated real-world traffic conditions to evaluate system behavior.
- Worked with NLP and small language models, exploring LLM architectures and RAG.
- Gained experience translating complex ML outputs into interpretable insights for practical deployment.

## Projects

**EEG as a timer in Physics**

(Ongoing)

- Exploring the feasibility of using ERPs as a temporal marker in physics research tasks.
- Analyzing SSVEP data using Brainstorm to understand neural responses under experimental conditions.
- Investigating implications for human perception, cognitive timing, and brain-computer interaction.

**Working Memory and Decision Making**

Apr 2025

- Implemented the paper "Working Memory and Decision Making in a Frontoparietal Circuit Model".
- Finetuned the model to incorporate long-term memory to simulating realistic decision making processes.
- Evaluated model variations to analyze schizophrenia-like cognitive patterns.

**Decision Trees in Medical Diagnoses**

Mar 2025

- Designed an interactive system to diagnose common illnesses with regard for individual medical history.
- Emphasized accessibility and usability by integrating audio and text input/output modalities.

**Querying Chatbot**

Jul 2024

- Built a small-scale conversational agent using open-source LLMs to query against a locally hosted model.
- Focused on human-AI interaction for response clarity, conversational flow, and system transparency.
- Explored trade-offs between usability, performance, and model interpretability.

**Traffic Signal Control Problem**

May 2024 - Jun 2024

- Investigated ML approaches to optimize traffic signal control under varying real-world conditions.

- Simulating scenarios using SUMO and netedit.
- Analyzed system behavior for human-centric outcomes such as reduced congestion and improved safety.

### Course Allocation Problem

*Sep 2023 - Nov 2023*

- Designed a graph optimization system for category-wise course allocation with multiple outcome scenarios.
- Integrated algorithms with a focus on the Hungarian algorithm to ensure fairness and efficiency.
- Considered scalability and user impact for institutional decision-making contexts.

### Hexapawn

*Aug 2021 - Feb 2022*

- Designed a two-player strategic game (3×3 board) using pandas dataframes.
- Compared randomized and greedy strategies to study random versus algorithmic decision making.

## Technical Proficiency

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- Languages: Python, SQL, MATLAB, C++, C
- Tools: Figma, Brian2, EEGLab, Brainstorm

## Certifications

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### Introduction to Psychology : Yale University

*Jun 2025*

[Coursera Certificate can be verified here.](#)

### Social Psychology : Wesleyan University

*Jul 2025*

[Coursera Certificate can be verified here.](#)

### Abnormal Psychology (Specialization) : Wesleyan University

*Aug 2025*

[Coursera Certificate can be verified here.](#)

### UI/UX Design (Specialization) : California Institute of the Arts

*Nov 2025*

[Coursera Certificate can be verified here.](#)

## Position of Responsibility

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### Co-ordinator : Kala, The Fine Arts Club of BITS Goa

*Aug 2023 - May 2024*

- Led and coordinated a team of 40, overseeing planning, execution, and operations for club activities.
- Organized live painting events, exhibitions, and workshops by managing logistics, finances, and scheduling.
- Demonstrated leadership, collaboration, and problem-solving to support an inclusive creative community.

## Extra-Curriculars

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### Volunteer : Abhigyaan, Education for All

- Taught 5 underprivileged children science, English, history, and foundational computer science.
- Mentored 5 volunteers by supporting lesson planning and classroom engagement.
- Conducted education and career workshops in orphanage settings, emphasizing accessibility and inclusion.

### Design Research Intern : Department of Humanities and Social Sciences, BITS Goa

- Designed informational materials for volunteer groups that work for women's welfare in rural India.
- Produced original art for mental health resources in economically affected regions, with a special emphasis on postpartum women.

### Public Speaking

- Attended 10+ MUNs as a delegate, organizer, volunteer, mentor, campus ambassador, and chairperson.
- Received multiple awards recognizing leadership, research quality, and articulation.

### Mentorship : Peer Mentorship Program, BITS Goa

- Mentored 6 freshmen academically, guiding course selection, and helping them meet their degree plans.
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