Ananya Bhide

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Education

Birla Institute of Technology and Science, Pilani (BITS)　　*Oct 2022 – Aug 2026*
B.E. (Hons.) Computer Science　　*(Expected)*
GPA: 8.27/10.00

Internships

Research Assistant　　*Connecticut, USA*
BrainLENS, University of Connecticut　　*(Ongoing)*
- Conducting EEG-based human-centered research with 100+ participants.
- Studying reading anxiety and developmental dyslexia by integrating neural and behavioral data.

Research Intern　　*Goa, India*
BiNN Labs, BITS Goa　　*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　　*Goa, India*
Cognitive Neuroscience Lab, BITS Goa　　*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　　*Maharashtra, India*
RI Equation LLP, Pune　　*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

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

Certifications

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

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

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.