

Ankit Barana

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EDUCATION

Oberlin College, Oberlin, OH

Double Major: Bachelor of Arts, Computer Science and Neuroscience

Expected: May 2025

GPA: 3.96/4.0

TECHNICAL SKILLS

Languages - Java, Python, Rust, Matlab **Web-Development** - ReactJS, NodeJS, SQLite, HTML, CSS **Cloud** - AWS **Version Control** - Git, Bash **Operating Systems** - Linux, Windows **Miscellaneous** - MS Office, Lucidchart

PROJECTS

Hallucinations Visualizer - A ReactJS web-application to visualize patient-reported hallucinations using OpenAI API

ACH Task - A ReactJS app with REDCap and AWS Lambda to conduct Auditory Conditioned Hallucinations (ACH) experiment

LmaoAI - A ReactJS app to submit input to and receive output from Chat GPT in multiple document formats

Shortified - A simple URL-shortener created using HTML, CSS, and Rocket, a Rust web framework

RESEARCH EXPERIENCE

Research Assistant

December 2023 - Present

Mentor: Albert Powers, MD-PhD (Powers Lab, Yale School of Medicine, New Haven, CT)

- Design and develop methodology and create web-applications to study and visualize patient-reported ACHs
- Operate Siemens 3T MRI scanners to support other research groups in the powers lab
- Conduct extensive literature review to identify relevant studies and inform experimental design and data analysis

Research Assistant

September 2023 - December 2023

Mentor: Adam Eck, PhD (Machine Learning Lab, Department of Computer Science, Oberlin, OH)

- Develop scripts to run and evaluate ML models to predict opioid abuse outcomes using publicly available county-level data
- Perform statistical tests to analyze the results of Machine Learning models
- Conduct extensive literature review to identify relevant studies and inform our experimental design and data analysis

Research Assistant

June 2022 - Present

Mentor: Leslie Kwakye, PhD (Sensory Neuroscience Lab, Department of Neuroscience, Oberlin, OH)

- Co-develop research methodology to explore the interactions between attention and multisensory integration
- Design the experiment in Experiment Builder and E-Prime 3 with stimuli created using Matlab and Adobe Suite
- Collect and analyze behavioral, EEG, and Eye-tracking data using, Excel, Prism, SPSS, BrainVision, and EyeLink plus

WORK EXPERIENCE

Resident Assistant, Office of Residence Life, Oberlin College, OH

August 2023 - Present

- Plan and implement weekly community-building strategies ensuring a safe and inclusive learning environment
- Actively resolve resident conflicts to ensure a conflict-free dorm environment with zero room change requests

Student Assistant, Office of the President, Oberlin College, OH

August 2022 - January 2023

- Managed email correspondence, phone inquiries, and office supplies for the President's Office
- Assisted in planning and executing important events like intercollegiate dinners and high-level guest meetings

LEADERSHIP

Smartphone Workshops

July 2021 - August 2021

Organizer/Conductor

- Digitally empowered the rural communities in Alwar with smartphone skills through tailored workshops
- Fostered financial inclusion by focussing on UPI payment systems and e-commerce strategies
- Collaborated with the local panchayat (village council) to coordinate logistics and maximize outreach

Neuronauts - An International Neuroscience Club

October 2019 - May 2021

Founder and Blog Author

- Oversaw a global virtual group of over 50 neurotech aspirants and professionals in the field from across 20 countries
- Facilitated collaborations between students and professionals via workshops, mentorships, and guidance

LANGUAGES

English, Hindi (native), Urdu (conversant), and Sanskrit (limited working, but I write poetry in Sanskrit)