

# Aryan Sinha

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## Education

<b>Northeastern University, Boston, MA</b> BSc in Computer Engineering and Computer Science	May 2027
<b>Relevant Coursework:</b> Computer Science (Fundamentals of CS 1), Physics for Engineers (Honors), Chemistry for Engineers (Honors), Calculus 1 & 2 (Honors), Differential Equations, Probability and Stats, Embedded Systems, Robotics.	
<b>Teaching:</b> Teaching Assistant for Calculus 1 for Sci/Engr (Fall 2024, Spring 2025)	

<b>Delhi Public School, RkPuram, Delhi, India</b> CBSE, Senior Secondary (Math, Physics, Chemistry, CS, English)	2021-2023
	84.3%

## Technical Skills

**Languages:** Python, JavaScript, C++, SQL, Mathematica  
**Libraries:** NumPy, Pandas, Matplotlib, PyTorch, TensorFlow  
**Tools:** Git, Terminal, AWS, Linux, Streamlit

## Professional Experience

<b>Lumiq, Noida, India — Summer Internship</b>	June 2024 - Aug 2024
- Designed and deployed cloud-based infrastructure on AWS, optimizing data storage and access.	
- Developed automation scripts using Python and SQL to streamline internal data management.	
- Led troubleshooting sessions to resolve system inefficiencies in large-scale applications.	
- Gained hands-on experience in Linux administration, Git version control, and SQL database structuring.	
<b>Bajaj Allianz Life Insurance, Delhi, India — Summer Internship</b>	July 2023 - Sept 2023
- Engineered and deployed a facial recognition-based attendance system to improve workforce tracking.	
- Implemented the system across multiple offices in Northeast India, reducing manual errors by 60%.	
- Integrated computer vision techniques for precise recognition in varied lighting conditions.	
- Collaborated with the IT team to enhance security protocols and optimize user access control.	

## Personal Projects

<b>Pehla School — MERN Stack, AI</b>	
- Developed a tutoring platform connecting homemakers in rural India with students needing educational support.	
- Implemented a dynamic dashboard for tracking tutor-student interactions and learning outcomes.	
- Secured funding from a Bihar-based NGO, allowing for expansion and continued development.	
- Integrated AI-powered learning tools to personalize lesson plans based on student performance.	
<b>Brain Tumor Image Segmentation — Python, U-Net, BraTS Dataset</b>	
- Built a U-Net-based image segmentation model for identifying brain tumors from MRI scans.	
- Designed an intuitive Streamlit-based web interface for non-technical users to analyze scans.	
- Focused on enhancing model accessibility for use in resource-constrained medical settings.	
<b>Nifty 50 Portfolio Builder — Python, Streamlit, YFinance, Plotly</b>	
- Developed an interactive finance tool enabling users to create equal-weighted Nifty 50 portfolios.	
- Integrated YFinance API to fetch real-time stock data, allowing users to track performance.	
- Designed visualizations using Plotly to provide insights into portfolio allocation and trends.	
<b>Social Media Interaction Analysis — Allegheny College</b>	June 2022 - Sept 2022
- Conducted a research project under Prof. Douglas Luman to analyze large-scale social media interactions.	
- Developed and deployed Twitter bots to study user engagement and content dissemination.	
- Published findings on Scholarly.co, contributing to computational social science research.	

## Other Activities

**Northeastern Clubs:** Chess, Poker, NU Sanskriti, ChemE Car  
**Sports:** Intramural Soccer & Cricket (Runners-Up, Q4 2023), Swimming, Ice Skating, Badminton