

Aryan Sinha

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Education

Northeastern University, Boston, MA

May 2027

BSc in Computer Engineering and Computer Science

Relevant Coursework: 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.

Teaching: Teaching Assistant for Calculus 1 for Sci/Engr (Fall 2024, Spring 2025)

Delhi Public School, RkPuram, Delhi, India

2021-2023

CBSE, Senior Secondary (Math, Physics, Chemistry, CS, English)

84.3%

Technical Skills

Languages: Python, JavaScript, C++, SQL, Mathematica

Libraries: NumPy, Pandas, Matplotlib, PyTorch, TensorFlow

Tools: Git, Terminal, AWS, Linux, Streamlit

Professional Experience

LumiQ, Noida, India — Summer Internship

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.

Bajaj Allianz Life Insurance, Delhi, India — Summer Internship

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

Pehla School — MERN Stack, AI

- 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.

Brain Tumor Image Segmentation — Python, U-Net, BraTS Dataset

- 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.

Nifty 50 Portfolio Builder — Python, Streamlit, YFinance, Plotly

- 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.

Social Media Interaction Analysis — Allegheny College

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