

Shreyash Arya

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[LinkedIn Profile](#) | [GitHub Profile](#)

EDUCATION

Year	Degree	Institute	CGPA/%
Present	B.Tech. + M.Tech. in Mathematics & Computing	Indian Institute of Technology (BHU) Varanasi	8.4 CGPA
2021	12 th CBSE	B. N. Public School	85.8%
2019	10 th CBSE	Little Flower School	95.6%

PROJECTS

- **The Cabir Cafe – Full-Stack AI-Integrated Web Application**
 - Designed and developed a responsive, multi-routed website frontend using the **Vite + React** framework, incorporating **Redux** and **React Hook Form**. [Link](#)
 - Built backend **RESTful APIs** using **FastAPI**, integrating authentication via **FastAPI Users** and **Google OAuth 2.0**.
 - Initially used **SQLite**, then migrated to **PostgreSQL** using Supabase for better scalability and performance.
 - Curated and preprocessed datasets to fine-tune a custom AI model.
- **Hankel Transformation-Based Brain Tumor Classification**
 - Explored the mathematical foundations and feature extraction capabilities of the Hankel Transform.
 - Developed a novel approach using the **Hankel Transform of the first kind** for feature extraction to classify brain MRI images into tumor-positive and tumor-negative classes.
 - Trained **Random Forest classifiers** using unweighted, class-weighted, and SMOTE-augmented datasets. [Link](#)
- **Alumni Website – IIT BHU**
 - Developed **modular, reusable React components** for alumni profiles, events, and news sections.
 - Resolved **cross-page navigation** and animation issues, improving site stability and user experience.
 - Applied **responsive layout** techniques to optimize usability across desktop and mobile devices.

POSITION OF RESPONSIBILITIES

- **Core Team Member - Student Alumni Interaction Cell**
 - Led a team of **70+ students** and aligned with **5 alumni associations** to execute diverse student-alumni initiatives.
 - Managed a 7-member newsletter team, publishing 12+ monthly editions with a global readership of 3,500+.
 - Spearheaded **8+ alumni reunions**, including 2 Golden Jubilee events, hosting 800+ alumni and their families.
 - Drove **alumni participation** and **campus engagement** by coordinating with multiple authorities, resulting in a **2x** increase in annual official alumni registrations.

ACHIEVEMENTS

- Secured **Silver Honor** with **global rank under 850** in **International Astronomy & Astrophysics Competition 2024**.
- Won a **gaming chair** for completing the 24-day cybersecurity challenge, **Advent of Cyber 2023**, by **TryHackMe**.
- Secured overall **10th rank** in Winter Consulting 2022, organized by the **Consulting & Analytics Club, IIT Guwahati**.
- Solved **450+ DSA problems** across multiple coding platforms.

TECHNICAL SKILLS

- **Languages/Frameworks:** C++, Python, FastAPI, React, Node.js, HTML, CSS, JavaScript, NumPy.
- **Technologies:** Git, GitHub, Linux, Google Workspace, Jupyter Notebook, Figma.
- **Interests:** Data Structures and Algorithms (DSA), Object-Oriented Programming (OOP), Operating Systems (OS), Web Development, Machine Learning, Cybersecurity.
- **Soft Skills:** Professionalism, Teamwork, Leadership, Management, Effective Communication, Content Writing.

EXTRA CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- Volunteered for a government school visit with the Sahyog Club and **mentored primary school students**.