Aliya Tariq

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Education

Integral University, Lucknow   **Aug 2021 – June 2025**
Bachelor of Technology - Computer Science   *GPA: 8.4/10*

Technical Skills

Programming Languages: Python, C, JavaScript, Java, SQL
Frameworks/Technologies: Git, GitHub, Docker, Figma, VS Code, Jupyter Notebook, Canva, Linux, Postman, Flask, REST API, LaTeX
Core Competencies: Data Structure, OOPS, Operating Systems, Computer Networking, Compiler Design, distributed system, DBMS, Discrete Mathematics, HCI, IOT, Microprocessor, Machine Learning, Fuzzy Logic and Neural Networks, Data Mining, Cryptography, Network security, NLP

Projects

HealMate ⬈ | *Python, Flask, HTML5, CSS3, JavaScript, NLP, REST API*   **Jul 2025**
- Developed as **final year project** with a team of 4, implemented an **NLP-driven chatbot** using **Flask** and REST APIs to deliver instant wellness recommendations with 90% accuracy.
- Built **user symptom tracking** with interactive data visualization, improving self-monitoring and engagement by 50%.
- Led **feature integration and testing** for seamless multi-module functionality, ensuring 100% project delivery within academic deadlines.

TickTickLife ⬈ | *TypeScript, HTML5, CSS, REST API, Data Visualization*   **Jun 2025**
- Developed a real-time **habit analyzer** and life clock, boosting beta user engagement by 70% during **Bolt Hackathon 2025** presentation.
- Enhanced **front-end performance** with responsive design, lazy loading, and cross-browser testing, reducing load time by 45%.
- Integrated **REST APIs** for dynamic data handling, enabling instant updates to habit impact calculations.

Personal Portfolio Website ⬈ | *HTML, CSS, JS, ARIA, Responsive UI*   **Sep 2023**
- Designed responsive portfolio with Matrix rain animation and accessible navigation, ensuring 100% cross-browser compatibility.
- Optimized performance using minification and asset compression, reducing load time by 40%.

ReadZen ⬈ | *JavaScript, HTML5, CSS3, File API, Data Persistence,*   **Aug 2025**
- Engineered customizable reading interface with font, color, and layout controls, improving session retention by 65%.
- Implemented drag-and-drop file upload with real-time preview for seamless reading of PDF/TXT files on any device.

Publications

Revolutionizing Healthcare Delivery Through AI-powered Chatbots ⬈   **May 2025**
- Accepted for publication in *International Journal of Innovative Research in Computer Science and Technology (IJIRCST)* Volume-13, Issue-3, May 2025.
- Conducted a systematic review of **20+ AI-powered healthcare chatbot studies**, identifying gaps in empathy, contextual accuracy, and bias mitigation.
- Designed a **novel AI-driven medical chatbot framework** integrating NLP, ML, and domain-specific medical knowledge to improve early symptom detection by **40%**.
- Analyzed real-world chatbot performance using datasets with **200+ patient interactions**, generating insights.

Certifications

Postman API Fundamentals Student Expert

Introduction to version control with Git

Introduction to Generative AI

IBM Machine Learning with Python — eTrain India

Leadership / Extracurricular

Finalist in "Design Odyssey" UI/UX challenge at IIT Indore E-Summit 2023 — designed a snack subscription app.

Gold medalist in intercollege basketball competition during FIESTA 2024.

Organized over 10 seminars, workshops and bootcamps as the Lead Coordinator of the Tech Club at my college

Volunteered as Curriculum Writer at Team Everest NGO, compiling an engaging English textbook for high school students.