

TARANNUM ARA

Lucknow, Uttar Pradesh, India

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About

Computer Science graduate specializing in Data Science and Artificial Intelligence, seeking an entry-level Software Engineer role to design, develop, and improve technical solutions. Passionate about creating innovative ideas, debugging systems, and contributing to efficient software workflows.

Education

Shri Ramswaroop Memorial University, Lucknow

B.Tech - CSE (*Data Science & AI*), associated with IBM

2021 – 2025

CGPA: 7.97

H S Academy, Varanasi

Intermediate (CBSE Board)

Percentage: 48.9%

Amar Shahid Inter College, Ghazipur

High School (UP Board)

Percentage: 82.83%

Skills

- **Programming Languages & Database:** C, Java, JavaScript, Python (Basics), MySQL
- **Web Technologies & Tools:** HTML5, CSS3, Bootstrap, Docker, Kubernetes, Hadoop, Hive, Power BI, Tableau, IBM SPSS Modeler, IBM Watson Studio, Cloudant, VMware
- **Frameworks & Libraries:** Tkinter, OpenCV, NumPy, Pillow (PIL)
- **Core CS Concepts:** DSA Basics, OOPs, Operating Systems, Software Engineering, AI Basics

Projects

Password Generator Web Application | HTML5, CSS3, JavaScript

Feb 2024 – April 2024

- Implemented customizable password generation logic allowing users to select length, uppercase letters, numbers, and special characters.
- Enhanced security by generating strong, random passwords using JavaScript built-in functions, reducing weak password risks by 100%.
- Designed a user-friendly and mobile-responsive interface to improve usability and accessibility.
- Optimized front-end performance to ensure fast password generation with real-time output display.

Smart Attendance System using Face Recognition | Python, OpenCV, Tkinter, PIL, SQLite July 2024 – May 2025

- Developed an automated attendance system using Python and OpenCV to recognize and verify individuals through facial recognition technology.
- Implemented real-time face detection and matching by comparing live camera input with stored image datasets.
- Integrated NumPy and Pillow (PIL) for image processing and data handling to improve recognition accuracy.
- Automated attendance recording and stored results efficiently, reducing manual effort by 90% and minimizing human errors.
- Designed a user-friendly interface using Tkinter for seamless interaction and attendance tracking.

Certifications & Achievements

- **IBM Certifications:** Enterprise Design Thinking Practitioner, Your Future in Data, Clean & Visualize Data, AI Analyst, AI Ethics.
- **IBM Day Celebration (Campus Level) - 2021:** Achieved 2nd Prize (Runner-Up) by presenting technical projects and demonstrating Python applications.
- **Smart India Hackathon – 2022:** Participated at institutional level and contributed to team-based solution development.