

Vayom Tyagi

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[Portfolio Site](#)

Education

GLA University

Bachelor of Technology in Computer Science

Mathura, Uttar Pradesh

May 2025

- **Relevant Coursework:** Data Structures and Algorithms (Java), Object-Oriented Programming, Operating Systems, Database Management Systems (MySQL), Computer Networks, Web Technologies

Technical Skills

- **Programming Languages:** Java, Python, JavaScript
- **Web & App Technologies:** HTML, CSS, Bootstrap, Node.js, Express.js, EJS, Git, GitHub, CustomTkinter
- **Database Technologies:** MySQL, Firebase Realtime Database
- **Embedded Systems & IoT:** ESP32, Arduino, Sensors (PIR, Light, RFID)
- **Tools & Platforms:** VS Code, PyCharm, IntelliJ IDEA, Arduino IDE, Terminal / Command Line
- **Soft Skills:** Effective Communication, Teamwork, Problem Solving, Stress Management

Projects

Smart Classroom Management Software (SCMS) | Python, Firebase, OpenCV, IoT

- Developed a Python-based desktop application using CustomTkinter to streamline classroom operations for students and teachers.
- Implemented a phase-based attendance tracking system ensuring students remain present throughout the entire lecture.
- Integrated an offline AI chatbot powered by DeepSeek and deployed via Ollama to assist students with homework and study queries.
- Designed a personalized report card system to visualize academic progress within the student dashboard.

Valorant Manager | Python

- Developed a Python-based desktop tool to automate login and agent selection for Valorant, a 5v5 tactical shooter by Riot Games, enhancing speed and convenience for players.
- Implemented secure credential storage and auto-launch scripting to streamline user authentication and gameplay setup.
- Designed a minimal GUI for ease of use and added functionality to manage multiple user profiles.
- Improved efficiency and gaming experience by reducing manual steps during game startup.

Smart Street Light System | ESP32, Arduino UNO

- Designed and implemented a smart lighting system that activates based on environmental light and weather conditions using LDRs and temperature sensors.
- Programmed the ESP32 to optimize energy consumption by switching lights on only during low-light or foggy conditions.

Extra-Curricular Activities

- Completed certification in Data Structures and Algorithms (SIGMA Batch) from Apna College
- Participated in Evolute Tech-a-thon (2023) organized at GLA University
- Active member of University Coding Club; participated in coding challenges and team hackathons
- President of eSports Club at GLA University
- Coordinated Intra-College Valorant Tournament at GLA University with 100+ participants
- Participated in Mogo Esports Valorant Tournament at GLA University
- Represented GLA University in Varchas Valorant Tournament (2023) at IIT Jodhpur