


Tiya Agarwal

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Objective

Motivated and curious B.Tech Computer Science student at VIT Vellore, passionate about leveraging technology to solve real-world problems. Skilled in full-stack development, machine learning, and cybersecurity, with strong communication and leadership abilities. Eager to contribute to dynamic teams and grow through hands-on experiences in the tech industry.

Education

- B.Tech in Computer Science and Engineering
- Vellore Institute of Technology (VIT), Vellore
- July 2023 – May 2027 (Expected)
- CGPA: 8.45 / 10

Technical Skills

Programming Languages: Python, C, C++, Java, HTML, CSS, JavaScript, React

Tools & Platforms: Git, Google Colab, Jupyter Notebook, VS Code, Kali Linux, Linux OS, Wireshark

Libraries & Frameworks: pandas, matplotlib, scikit-learn, seaborn, NumPy, SQL, TensorFlow (basics), Node.js, MongoDB

Core Areas: Web Development, Full-Stack Development, Data Structures & Algorithms (C++), Machine Learning, Artificial Intelligence, Natural Language Processing (NLP), Cybersecurity, Cryptography

Projects

- Anemia Detection using Machine Learning
 - Python, scikit-learn, pandas, seaborn
- Built a classification model to predict anemia using hematological data (Hemoglobin, MCH, MCHC, MCV)

- Performed data cleaning, statistical analysis, and outlier treatment using pandas and visualization libraries
- Trained multiple ML models and achieved over 90% accuracy using Random Forest
- Created a clean dataset ready for future deployment or dashboard integration

Certifications / Courses

- Machine Learning Specialization – Completed hands-on project on anemia detection using supervised ML models (2024)
- Cybersecurity Fundamentals – Gained foundational knowledge in ethical hacking, network security, and tools like Wireshark and Kali Linux (2024)

Positions of Responsibility

- PR Head – Team Mirage, Dance Club, VIT Vellore
- Led public relations and outreach for Team Mirage, a performance team under the Dance Club at VIT
- Managed the team's visibility and branding during campus-wide dance competitions and cultural events
- Senior Core Member – R&D, IEEE Computer Society Chapter, VIT Vellore
- Leading initiatives and contributing to the Research & Development wing of the IEEE CS Chapter
- Participated in brainstorming sessions, tech research, and planning upcoming tech-based projects

Achievements / Interests

- Winner of multiple inter-college dance competitions and events
- Participated in several national and university-level hackathons
- Earned certificates for attending technical workshops on AI, cybersecurity, and full-stack development
- Actively involved in both technical and cultural communities on campus