

Radhika Agrawal

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Lucknow, Uttar Pradesh - 226002, India

SUMMARY

B.Tech student, passionate about technology, problem-solving, and innovation. Proficient in Python, C, C++, Java, and full-stack development using Flutter, React.js, and SQLite. Actively learning machine learning through hands-on projects and online courses, with a strong desire to explore its real-world applications. Currently exploring cloud computing, green cloud, and the intersection of AI with sustainability. Eager to contribute to impactful projects that promote energy efficiency and environmental responsibility.

EXPERIENCE

- **CollegeTips.in**  May 2025 - Jun 2025
Web Development Intern Remote
 - Developed the company's photo gallery using JavaScript, CSS and HTML.
 - Built a website for their campaigns, such as Pet-Friendly Awareness Campaign, and Digital Literacy Campaign.
- **iStudio**  Apr 2025 - May 2025
Machine Learning Intern Remote
 - Engineered a multi-model regression system for the Student Performance Indicator, improving predictive accuracy (R^2) by 85% on unseen academic data
 - Developed a comparative evaluation pipeline for Linear, Ridge, Lasso, KNN, Decision Tree, and Random Forest models, increasing model selection efficiency by 60%
 - Implemented automated performance metrics (MAE, RMSE, R^2), reducing manual evaluation time by 70%
 - Conducted cross-validation and test set analysis to validate model generalization and detect overfitting

EDUCATION

- **Vellore Institute of Technology** Jul 2023 - Jul 2027
B.Tech- CSE Chennai, India
 - CGPA: 9.43
- **Seth Anandram Jaipuria School** 2023
Higher Secondary Certificate (12th) Lucknow, India
 - Grade: 93.8%
- **Delhi Public School** 2021
Secondary School Certificate (10th) Dehradun, India
 - Grade: 99.4%

PROJECTS

- **Green Cloud Optimization Dashboard** Jan 2025 - Apr 2025
 - Developed a cost and sustainability dashboard using Docker to simulate VMs with local resource tracking.
 - Integrated energy models (SPECpower, Beloglazov et al.) to optimize VM energy use with a React.js frontend with filters and control panels.
- **Flutter-based Education Portal App** Jul 2024 - Nov 2024
 - Created an app for course tracking, assignment management, and interactive tools with integrated SQLite for secure login/profile data persistence.
 - Designed a user-friendly UI tested by 20+ users.

SKILLS

- **Programming Languages:** Java, C++, C, Python
- **Web Technologies:** Flutter, React.js, Javascript, CSS, HTML
- **Database Systems:** MySQL
- **Data Science & Machine Learning:** scikit-learn, pandas, NumPy, Matplotlib, Jupyter Notebook
- **Cloud Technologies:** AWS, Docker
- **Mathematical & Statistical Tools:** MATLAB, R Programming
- **Soft Skills:** Team Collaboration, Time Management, Communication

LEADERSHIP EXPERIENCE

- **Design Lead**
Sangam Club, VIT Chennai
 - Led visual identity and creative direction for events.
 - Designed engaging posters and digital assets, increasing major engagement by 30%.

May 2025- Ongoing

CERTIFICATIONS

- **iStudio:** [Machine Learning](#)
 - **Udemy:** [Java Programming Masterclass](#)

May 2025
Dec 2024

ADDITIONAL INFORMATION

Languages: English (Advanced), Hindi (Advanced), French (Beginner)