

# Rakshita Makkar

Phone: 8826377703 | Email: [rakshitamakkar66@gmail.com](mailto:rakshitamakkar66@gmail.com) | GitHub: <https://github.com/Rakshit-a1>  
LinkedIn: <https://www.linkedin.com/in/rakshita-makkar-01817524b>

## EDUCATION

|   |   |
|---|---|
| <b>VIT Bhopal University</b><br>BTech<br>Computer Science Engineering<br>Cumulative GPA: 8.58/10<br><b>12<sup>th</sup> Standard</b> | Bhopal, Madhya Pradesh<br>Expected May 2026 |
| <b>Loreto Convent School</b><br>CBSE Percentage: 82/100<br><b>10<sup>th</sup> Standard</b>  | Delhi Cantt, New Delhi<br>Jul 2022          |
| <b>Loreto Convent School</b><br>CBSE Percentage: 88.4/100   | Delhi Cantt, New Delhi<br>Mar 2020          |

## PROJECTS

|  |  |
|--|--|
| <b>AQI Prediction System</b><br>Role: Lead Developer   Technologies: Python, Machine Learning, Deep Learning<br>Designed and implemented a Deep Learning (DL) system to predict AQI, achieving 80% accuracy with models such as Transformer, Dense Neural Networks (DenseNN), Gated Recurrent Unit (GRU), and Long Short-Term Memory (LSTM).<br><b>Cascade - A GenAI Study Companion Software</b><br>Role: Lead Developer   Technologies: Python, PyQt, LLM, MySQL<br>Developed a personalized study companion software that analyzes individual learning patterns, preferences, and exam schedules to generate customized study plans that increases efficiency by 50%. Key features include a Timer, To-do list, Notes, Music Player, Flashcards, and a GenAI-powered Chatbot. | Mar 2025 – Jun 2025<br>Jan 2024 – Apr 2024 |
| <b>Eradiket – One Stop Platform for Data Management</b><br>Role: Developer   Technologies: Python, AES, ChaCha 2.0, Cybersecurity<br>Created a comprehensive data management software with system check capabilities, permanent deletion features, and encryption and decryption functionalities. The platform offers two prominent encryption methods: AES and ChaCha 2.0, with options for key sizes of 128, 196, or 256 bits.   | Apr 2023 – Sep 2023                        |

## EXPERIENCE

|   |                     |
|---|---------------------|
| <b>ML Research Intern at Manav Rachna International Institute of Research and Studies</b><br>Conducted research on Parkinson's disease, developing a speech analysis project using ML models with features like Mel-frequency Cepstral Coefficients, chroma, spectral centroid, and Harmonics-to-Noise Ratio with up to 90% accuracy. | Oct 2024 - Dec 2024 |
|---|---------------------|

## CONFERENCE PRESENTATIONS

|   |          |
|---|----------|
| <b>Global AI Summit 2025 – International Conference on Artificial Intelligence and Emerging Technology 2.0, Bennett University, India, Presenter (technically co-sponsored by IEEE UP Section)</b><br>“Machine Learning-Based Acoustic Feature Analysis for Early Detection of Parkinson's Disease” | Nov 2025 |
|---|----------|

## EXTRACURRICULAR

|   |                     |
|---|---------------------|
| <b>CyberWarriors club   Design Team Lead</b><br>Lead a design team of six members within the CyberWarriors club, delivering eight impactful design projects, and completing 100% of all design requests by project deadlines. | Oct 2024 – Aug 2025 |
| <b>Dance club   Core Member</b><br>Coordinated and executed three club events including workshops and performances resulting in increased member engagement and participation.  | Jan 2023 – Aug 2025 |

## ADDITIONAL

**Technical Skills:** Microsoft Office, Excel, Canva, Intermediate in C++, Proficient in Python, Java, HTML, CSS, MySQL  
**Languages:** Fluent in Hindi, English  
**Certifications & Training:** Cloud Computing - NPTEL | Issued: April 2024  
The Bits and Bytes of Computer Networking - Google | Issued: December 2023  
Supervised Machine Learning: Regression and Classification – Stanford University and DeepLearning.AI | Issued: July 2023