Nivedita Agarwal

9599457340 | niveditaagarwal76@gmail.com | https://github.com/letscode-hub

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EDUCATION

Vellore Institute of Technology   **Vellore**
Master of Computer Application (MCA) — Current CGPA: 8.20/10   *2024 - Present*

Institute of Information Technology and Management (IITM)   **Delhi**
Bachelor of Computer Applications (BCA) — CGPA: 9.39/10   *2021 - 2024*

DAV MODEL SCHOOL(XII)   **Delhi**
CBSE — Percent: 80.04   *2020 - 2021*

DL DAV MODEL SCHOOL(X)   **Delhi**
CBSE — Percent: 81.83   *2018 - 2019*

PROJECTS

Interactive Sign Language Learning
- Built a **machine learning model** to recognize 26 hand gestures representing sign language alphabets using a self-curated dataset.
- Integrated **real-time verbal feedback** and visual object representations to enhance user learning.

Pixel Art Generator
- Developed a web-based **pixel art creation tool**, simplifying digital art generation for users without advanced skills.
- Applied **software engineering principles**, including UML diagrams and report generation.

Stroke Prediction
- Developed a **Convolutional Neural Network (CNN) model** to predict stroke risk based on healthcare data, demonstrating expertise in deep learning and AI.
- Optimized **prediction accuracy** through hyperparameter tuning and data analysis.

College Voting System (Ongoing)
- Designed a full-stack web application for secure and efficient college elections using modern frameworks.

SKILLS

- **Technical Skills: -**Java, Python, C++, Machine Learning (ML), Deep Learning (DL), SQL, MongoDB, Oracle DB, AWS, Google Cloud, Azure, HTML, CSS, JavaScript, React, Node.js
- **AI & Data Science**: Data Science, Artificial Intelligence, Machine Learning, Deep Learning, Generative AI, CNNs, NLP, TensorFlow, image processing, Python, NumPy, Pandas, scikit-learn, Software Testing, OpenAI, Gemini API
- **Data Structures & Algorithms (DSA):** Algorithm optimization and problem-solving
- **Soft Skills:** - Communication | Logical Thinking | Problem-Solving | Time Management | Leadership | Team Collaboration

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CERTIFICATIONS AND COURSES

- Advanced Data Science Using Python – Shape My Skills Pvt. Ltd.
- Introduction to Strategy Consulting Job Simulation
- Generative AI Certification – Guvi   :- View Certificate
- Python Zero to Hero – Guvi   :- View Certificate

POSITION OF RESPONSIBILITY

- **Placement Coordinator (BCA): -**Acted as the liaison between students and faculty, ensuring smooth coordination for placement related activities.