

# YUVIKA GUPTA

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## EDUCATION

### LNMIIT Institute of Information Technology (Ongoing)

Graduation: May 2027

B.Tech in Mechanical-Mechatronics Engineering

- Specialization in Robotics and Automation

### Brightlands Girls Sr. Sec. School

12th Grade: Science

93% Aggregate

## SKILLS

### Technical Skills:

- **Programming Languages & Concepts:** C++, C, Data Structures & Algorithms, Python, Mysql, MATLAB
- **Web Development:** HTML, CSS, JavaScript
- **Machine Learning:** Scikit-learn, PCA, Grid Search, Model Evaluation
- **Data Processing & Analysis:** Pandas, NumPy, SciPy, Seaborn, Matplotlib
- **Version Control:** Git, GitHub
- **Development Tools:** Anaconda, Conda, pip, Simulink, AutoCAD, Solidworks

### Soft Skills:

- Effective Communication & Public Speaking
- Team Collaboration & Mentorship
- Critical Thinking, Creativity & Attention to Detail
- Problem Solving & Adaptive Learning

## PROJECTS

### 🔗 Medical Recommendation System

(Github Repo)

- Built a personalized health platform using Python and Machine Learning to predict diseases based on user-input symptoms, enabling early diagnosis and personalized care.
- Applied PCA (Principal Component Analysis) for dimensionality reduction, Grid Search for hyperparameter tuning, and a Butterworth Filter to enhance signal clarity during health data processing.
- Developed a user-friendly frontend interface with HTML, CSS, and JavaScript, ensuring smooth interaction and real-time symptom analysis.

### 🔗 Hate Speech Detector (Ongoing)

- Developing an NLP-based model to classify online text as offensive or non-offensive, aiming to minimize online toxicity and hate speech.
- Implementing Tokenization, Lemmatization, and TF-IDF for structured text preprocessing and efficient feature extraction.
- Built classifiers using Logistic Regression and Naive Bayes for robust text analysis, achieving high accuracy in classification.

## ACHIEVEMENTS

- **Codeforces - Rating 893** (Profile Link)
- Participated in **MNIT Coding Marathon 2023**: Tackled algorithmic challenges in a timed team-based environment
- Selected for **Global Ideathon Taiwan**: Proposed “AI-Mediated Consciousness Sharing” under Human-Machine Integration.

## POSITIONS OF RESPONSIBILITY

- Core Member of **The Counselling and Guidance Cell, LNMIIT** mentoring 50+ students
- Member of **ASME Student Chapter, LNMIIT**
- Core Member of **EFX, LNMIIT**
- Core Coordinator of **Fundoo, the Festival Organizing Club, LNMIIT**
- Member of **Cybersecurity Club, Cipher, LNMIIT**