

# Nutan Kumari

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## EDUCATION

### Indraprastha Institute of Information Technology

Bachelor of Technology in Computer Science And Social Sciences Engineering | CGPA: 7.20

Okhla, New Delhi

Nov. 2022 – Present

### Govt. Girls Senior Secondary School

Higher Secondary | 93%

Kakrola, New Delhi

Apr. 2021 – March 2022

## EXPERIENCE

### Undergraduate Researcher @USG Lab

Indraprastha Institute of Information Technology

August 2024 – Present

Okhla, New Delhi

- Developed and deployed a pipeline for classifying real vs. AI-generated audio with emphasis on attribution to source generation model.
- Created a Flask-based web interface for enabling real-time upload of audio, feature extraction via Librosa, and backend model interface
- Evaluated models using precision, recall, F1 score and getting accuracy of 98%. [\[Poster\]](#) [\[Report\]](#)

### Teaching Assistant

Indraprastha Institute of Information Technology

August 2024 – December 2024

Okhla, New Delhi

- Assisted in teaching “Introduction to Programming in Python” to first-year students, enhancing their understanding of core programming concepts.
- Facilitated lab exercises on HackerRank, supporting students in developing practical programming skills, improving overall student performance by 40%
- Earned 2 academic credits for delivering effective and impactful teaching assistance.

## PROJECTS

### Smart Attendance System | Python, Flask, Opencv, MySQL, Javascript, HTML5, CSS3 June 2024 – July 2024

- Created an admin dashboard to streamline attendance tracking and minimize manual labor.
- Developed a responsive frontend with HTML, CSS, and JavaScript to enhance speed and usability.
- Employed a secure SQL database on Aiven to save data and manage more than 100,000 records in real time.

### MyMusic | JavaScript, JioSavan API, HTML5, CSS3

May 2024 – June 2024

- Created a responsive music player like Spotify using HTML, CSS, and JavaScript.
- Connected to JioSaavn API to fetch songs from a large music library.
- Added features like search, playlists, and popular albums to improve user experience.
- Deployed the app on Vercel so it works fast on all devices.

### Assembler and Simulator | Python, RISC ISA, Pycharm, Github, Algorithms

June 2023 - July 2023

- Developed an assembler and simulator in Python for a specified RISC ISA, incorporating error handling mechanisms.
- Created the simulator to emulate a virtual RISC processor, managing runtime errors and providing accurate simulation.
- Demonstrated proficiency in Python programming, assembly language concepts and computer organisation and architecture concepts.

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, C/C++, JavaScript

**Tools:** Git, GitHub, VS Code, PyCharm, IntelliJ, Jupyter Notebook, Postman API, Google Colab, Pytorch, Tensorflow, Huggig Face, MySQL Workbench, Matplotlib

**Relevant Course Experience:** Machine Learning, Operating System, Database Management System, Advanced Programming, Algorithm Design Analysis, Data Structures and Algorithms, Linear Algebra

**Web Technologies:** HTML5, CSS3, Tailwind Css, JavaScript, Express.js, Node.js, Flask, React