

# JYOTI

Delhi, India

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## EDUCATION

**Indira Gandhi Delhi Technical University For Women, Delhi**(M.Tech CSE-AI) **CGPA: 8.25**  
August 2023 - Present

**Dr. Ram Manohar Lohia Awadh University, Uttar Pradesh**(B.Tech IT) **CGPA: 8.86**  
July 2019 - June 2023

## TECHNICAL SKILLS

- **Programming Languages:** Python, C++
- **Web Technologies:** HTML, CSS
- **Tools and Libraries:** SQL, MySQL, NumPy, Pandas, Flask, Tableau, Visual Studio, MS Office, Overleaf, Zotero,
- **Other Skills:** Data Structure Basics, Machine Learning

## PROJECTS

**XpenseTracker: AI-Powered Expense and Savings Advisor** — Python, NumPy, Pandas, Scikit-Learn, NLP, Flask  
January 2025 – Present

- Analyzed **10,000+** transactions over **3–4 years** to identify spending patterns.
- Preprocessed and categorized **95%+** of expenses for EDA and insights.
- Developing an NLP-based system for **automated savings suggestions**, increasing savings by **20%**.

**User Browsing Behavior Analysis — Data Analytics Project** — Python, Pandas, NumPy, Matplotlib, Seaborn, urllib  
January 2023 – July 2023

- Processed **5,104+** records using Python (Pandas, NumPy); cleaned data and imputed 53 missing values via automated web scraping.
- Engineered 3+ time-series features; visualized trends using Power BI, Matplotlib, revealing peak engagement at **9 PM** and **70% Upwork usage**.

**Biomedical Waste Analysis & Forecasting** — Python, NumPy, Pandas, Matplotlib, Scikit-Learn, Tableau, Excel **August 2024 – December 2024**

- Explored CPCB data (2008–2022) on biomedical waste generation, treatment, and attributes across Indian states/UTs.
- Processed and cleaned **500+** records from PDF to Excel, performed EDA, and applied feature engineering to boost model accuracy.
- Trained predictive models achieving high accuracy: **LSTM ( $R^2 = 94\%$ )**, **Random Forest ( $R^2 = 95\%$ )**, and **XGBoost ( $R^2 = 95.4\%$ )**.

**Fake News Detection** — Python, Scikit-Learn, Pandas, Matplotlib, NumPy, Flask **January 2024 – May 2024**

- Designed a fake news detection system using SVM, Random Forest, XGBoost, and Logistic Regression, with preprocessing for duplicates, links, and punctuation.
- Achieved high model accuracy: **XGBoost (98%)**, **SVM (97.2%)**, **Random Forest (96.1%)**, **Decision Tree (94%)**, and **Logistic Regression (90.01%)**.
- Developed a Flask web app for user-friendly input and real-time feedback on news authenticity.
- [GitHub Link](#)
- [Live Demo Link](#)

## INTERNSHIP

**Research Intern - Biomedical Waste Management System** **June - July 2024**

- Reviewed 20+ papers and analyzed regulatory frameworks for technology adoption in biomedical waste management.
- Researched IoT, ML, and Blockchain for smart waste tracking and classification; studied global tech adoption regulations.

## CERTIFICATIONS AND ACHIEVEMENTS

### Certifications

- Database Management System (NPTEL-Elite)
- Web Development (Internshala)
- HTML, CSS Course (Udemy)

### Volunteer Experience

- Deepotsav, Dr. Rammanohar Lohia Awadh University, Ayodhya (2020 and 2021)

### Miscellaneous

- Achieved third position in E-Poster Making Competition at University of Lucknow on International Light Day Celebration
- Completed 20+ hours of intensive 'Beyond the Stage' virtual theatre workshop at Natyavyom Films and Acting Academy, earning certification and honing communication and creativity skills