

# JYOTI

Delhi, India

Aspiring Data Analyst / ML Engineer - Python - SQL - Tableau - Machine Learning

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## PROFESSIONAL SUMMARY

M.Tech (CSE-AI) student with strong foundation in data analytics, machine learning, and data visualization. Hands-on experience building ML-powered web apps, analyzing real-world datasets, and delivering actionable insights using Python, SQL, and Tableau. Open to roles in data analysis, ML engineering, and business intelligence.

## TECHNICAL SKILLS

- **Programming:** Python, SQL, C++
- **Machine Learning:** Scikit-Learn, Traditional ML Algorithms, Random Forest, XGBoost, LSTM, NLP
- **Data Analytics & Visualization:** Pandas, NumPy, Matplotlib, Seaborn, Tableau, Power BI
- **Web Development:** Flask, HTML, CSS
- **Tools:** Visual Studio, Zotero, Overleaf, MS Office

## PROJECTS

[XpenseTracker: AI-Powered Expense and Savings Advisor](#) — Python, NLP, Flask, Scikit-Learn, Data Modeling

January 2025 – Present

- Developed an intelligent financial assistant leveraging natural language processing and machine learning to provide real-time savings recommendations.
- Performed exploratory data analysis on **10,000+ multi-year transaction records**, uncovering high-frequency spending triggers and recurring payment cycles.
- Built a modular NLP pipeline for parsing user intents and generating category-level savings insights, boosting forecasted monthly retention by **20%**.

[User Browsing Behavior Analysis](#) — Data Analytics, Power BI, Seaborn, Feature Engineering

April 2025

- Executed end-to-end data wrangling, including missing value imputation and normalization, on **5,104 browsing activity logs**.
- Automated **web scraping via urllib** to enrich incomplete records; extracted metadata and timestamp features for behavioral modeling.
- Created interactive Power BI dashboards and visual heatmaps, identifying a **70% Upwork engagement peak at 9 PM**, aiding product targeting.

[Biomedical Waste Forecasting](#) — Excel, Tableau, LSTM, XGBoost, Time-Series Analysis

August – December 2024

- Consolidated and digitized **500+ government records** (PDF to structured Excel) related to biomedical waste management across Indian states from 2008–2022.
- Applied time-series feature extraction and statistical transformation for improving long-term trend predictions.
- Trained and validated predictive models achieving strong accuracy: **LSTM ( $R^2 = 94\%$ )**, **XGBoost ( $R^2 = 95.4\%$ )**, **Random Forest ( $R^2 = 95\%$ )**; visualized trends in Tableau for decision-making.

[Fake News Detection](#) — Flask, Text Classification, TF-IDF, Logistic Regression

January – May 2024

- Designed a fake news classification system using supervised learning models and **text vectorization (TF-IDF)** to detect misinformation in headlines and content.
- Conducted extensive preprocessing to eliminate noise (e.g., URLs, special characters, duplicate entries) and balanced the dataset using stratified sampling.
- Achieved **98% accuracy with XGBoost**, followed by SVM (97.2%), and built a Flask-based front-end for real-time user interaction and validation. [GitHub Repository](#) [Live Demo](#)

## 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

## 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

- **NPTEL-Elite:** Certified in Database Management Systems — covered ER modeling, normalization, indexing, and SQL optimization.
- **Internshala Web Development:** Practical exposure to full-stack development including HTML, CSS, JavaScript, and deployment tools.
- **Udemy:** Completed project-based training in HTML and CSS, gaining strong frontend design fundamentals.