



JYOTI YADAV

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EDUCATION

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|-----------------------------|-----------|--|---------|
| B.Tech – CSE (Data Science) | 2023–2027 | Netaji Subhas University of Technology (NSUT), New Delhi | 8.05/10 |
| AISSE (Class XII) | 2021 | Govt Sarvodaya Co-ed Sr Sec School, New Delhi | 94.5% |
| AISCE (Class X) | 2019 | Ring Midways Public School, New Delhi | 88.89% |

PROJECTS

Optimized Predictive Maintenance Scheduling (NASA C-MAPSS)

Data Handling & Visualization Project – Python, Pandas, NumPy, Matplotlib

2025

- Built an end-to-end **data pipeline** to ingest, clean, validate, and transform high-volume sensor time-series data.
- Performed **feature engineering** (rolling statistics, EMA, lag trends) to improve data quality and model readiness.
- Developed RUL-based maintenance scheduling logic to reduce **downtime and cost** and improve operational efficiency.
- Generated analytics-ready outputs and visual summaries for interpretability and decision-making.

Event Management System (Database-backed Application)

DBMS Project – Java, MySQL, JDBC, SQL

Dec 2024

- Designed and implemented a **relational database system** for event registration, scheduling, and attendee tracking.
- Built normalized schemas (1NF–3NF) with **PK/FK constraints** ensuring integrity, consistency, and low redundancy.
- Developed optimized **SQL queries** for CRUD, search, and reporting-style outputs; integrated Java with MySQL via JDBC.
- Improved query performance using efficient joins and structured **data access patterns** (scalable retrieval).

Fake News Detection Pipeline (Data Processing + ML)

ML Project – Python, Scikit-learn, Pandas, TF-IDF

Apr 2025

- Developed a reusable preprocessing workflow to clean, transform, and prepare unstructured datasets for modeling.
- Built an evaluation pipeline and compared models (Logistic Regression, SVM, Random Forest) for performance and stability.
- Achieved **92% accuracy**; reviewed precision/recall and confusion matrix for reliable output reporting.

POSITIONS OF RESPONSIBILITY

Team Lead – Event Management System (DBMS Project)

Led a 3-member team; designed ER diagram, finalized schema, enforced constraints, and coordinated integration/testing.

Team Lead – Fake News Detection (ML Project)

Managed dataset preprocessing, feature engineering decisions, and evaluation workflow; coordinated training and reporting across the team.

EXTRA-CURRICULAR ACTIVITIES AND ACHIEVEMENTS

Community Service Intern – Nanhi Kashtiyani NGO

Volunteered as an English tutor for underprivileged children, strengthening communication and mentoring skills.

May 2024–Jun 2024

Solved **160+** DSA problems on LeetCode, strengthening analytical problem-solving and coding fundamentals.

TECHNICAL SKILLS

Languages: SQL, Python, Java

Databases MySQL, Relational Modeling, Normalization, Indexing (basic), Joins/Query Optimization

Frontend Technologies: HTML, CSS, JavaScript

Libraries/Tools: Pandas, NumPy, Matplotlib, Scikit-learn, Git, GitHub, IntelliJ IDEA, VS Code

Core CS: DBMS, Data Structures & Algorithms, Operating Systems