Ritika Srivastava

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B.Tech - Computer Science Engineering

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Indira Gandhi Delhi Technical University for Women

[GitHub](#) | [LinkedIn](#)

EDUCATION

Indira Gandhi Delhi Technical University for Women	*Delhi, India*
B.Tech in Computer Science Engineering, Current CGPA: 7.24	*2022 – 2026*

SKILL SUMMARY

- **Languages**: C/C++, Python, HTML, CSS, JavaScript, SQL
- **Tools & Frameworks**: Excel, Power BI, Tableau, Pandas, NumPy, Matplotlib, Seaborn, Streamlit, MongoDB, Git, Postman, Google Colab
- **Technical Skills**: Data Structures & Algorithms, OOPS, DBMS, OS, Data Analysis, Data Visualization, ETL

PUBLICATIONS

"AI-Driven Synthetic Data for Better Lung Cancer Prediction with TabDDPM and CTGAN", 4th International Conference on Applied Artificial Intelligence and Computing (ICAAIC), 2025. **(Oral Presentation)**

PROJECTS

- **Movie Recommendation System** [Github Website](#) — *Jan. 2026*
  - **Tech**: Python, NLP, TF-IDF, Scikit-learn, FastAPI, Streamlit
  - **ML System**: Designed a content-based recommendation engine using TF-IDF and Cosine Similarity on TMDB metadata.
  - **Backend**: Built a RESTful API using FastAPI for low-latency recommendations.
  - **Frontend**: Developed an interactive Streamlit UI for real-time movie recommendations.
  - **Optimization**: Serialized the trained model to enable fast inference without retraining.

- **Sales Data Analytics & Forecasting Dashboard** [Github Website](#) — *Dec. 2025*
  - **ETL**: Built an automated end-to-end ETL pipeline to clean, preprocess, and store sales data with zero manual intervention.
  - **Analytics**: Developed BI dashboards to analyze 10K+ sales records and identify revenue trends, categories, and growth metrics using Streamlit and Plotly.
  - **Forecasting**: Implemented time-series sales forecasting using Prophet to predict sales for the next 365 days.

- **Resume Analyzer & Job Match System** [Github Website](#) — *Nov. 2025*
  - **NLP**: Built an NLP-based system using spaCy and TF-IDF to analyze resumes against job descriptions and compute match scores.
  - **Analysis**: Implemented skill extraction and missing-skill detection to recommend suitable job roles and improvement areas.
  - **Reporting**: Generated automated PDF reports with match scores, skill gaps, visualizations, and AI-driven improvement tips.

- **Customer Churn Prediction** [GitHub](#) — *June 2023 – July 2023*
  - **Overview**: Developed a machine learning model to predict customer churn and assist businesses in implementing targeted retention strategies.
  - **Objective**: Applied Python and ML techniques to identify potential churn and enable proactive customer retention.
  - **Tools**: Python, scikit-learn, pandas, Google Colab

POSITIONS OF RESPONSIBILITY

- **Research Team**, ARC Society, IGDTUW Delhi	*Sept. 2023 - Till Date*
- **PR Team**, Rotarct Club, IGDTUW Delhi	*Sept. 2024 - Sept. 2025*

CERTIFICATIONS

- **Web Development**, Internshala	*June 2024*
- **Summer Internship on Python and Machine Learning**, (COE)- (AI), Anveshan Foundation	*July 2023*
- **Desh ke Mentor**, Govt. of NCT	*Jan. 2023 - Apr. 2023*