Riti Dubey

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EDUCATION

- **Bennett University(Times of India Group)** — Uttar Pradesh, India
  Bachelor of Technology - Computer Science and Engineering; — *July 2023 - July 2027*
  CGPA: 8.7 (up to 4th semester, ongoing)
  Courses: *Operating Systems, Data Structures, Analysis of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases*

- **ST. Thomas School** — Gopiganj Bhadohi, India
  Class XII (ISC – CISCE Board) — *July 2022*

- **ST. Thomas School (CISCE Board)** — Gopiganj Bhadohi, India
  Class X (ICSE – CISCE Board) — *July 2020*

SKILLS SUMMARY

- **Languages:** Python, C++, SQL, JAVA
- **Frameworks:** Scikit, TensorFlow, Keras, Flask
- **Databases:** MySQL, SQLite
- **Tools & Version Control:** Git, GitHub, REST APIs
- **AI & Machine Learning:** Machine Learning, Deep Learning, Neural Networks, CNNs, SVM, XGBoost, Natural Language Processing (NLP), TF-IDF, Word2Vec
- **IDEs & Development Environments:** Apache NetBeans, VS Code, Jupyter Notebook, Google Colab
- **Soft Skills:** Problem Solving, Writing, Public Speaking, Time Management

EXPERIENCE

- **Defence Research and Development Organisation (DRDO) – Project Intern** — Delhi, India
  Student Intern (Summer Internship) — *June 2025 – July 2025*
  - **Offline Messenger Application**: Designed and developed a Java-based offline messaging application supporting one-to-one and group communication using Java Swing, TCP/IP sockets, client–server architecture, and multithreading, enabling reliable message exchange without internet connectivity.
  - **Database Integration**: Integrated SQLite using JDBC for persistent storage and efficient retrieval of user and message data, ensuring smooth message handling and synchronization.

PROJECTS

- **SQL Injection Detection System (Machine Learning, NLP, Cybersecurity)**: Developed an intelligent detection system to identify malicious SQL injection queries using machine learning and NLP techniques. Performed extensive preprocessing, feature extraction, and model evaluation to achieve strong classification performance. Technologies used: Python, Scikit-learn, SVM, XGBoost, BERT, TF-IDF, Word2Vec, NLP Pipelines, Data Preprocessing, Model Evaluation

- **RetinaSight AI – Diabetic Retinopathy Classification & Localization (Deep Learning, Medical Image Analysis)**: Developed a deep learning system to automate retinal disease classification and localization, reducing reliance on manual screening. Technologies used: Python, TensorFlow, Keras, Xception, EfficientNet, CNNs, Grad-CAM, Image Augmentation, Flask, REST APIs

- **Inventory Management System (Desktop Application, Database Management)**: Created a desktop-based inventory management system with a user-friendly GUI for efficient stock tracking. Implemented secure CRUD operations and optimized database interactions for fast search and updates. Technologies used: Python, Tkinter, SQLite, SQL Queries, CRUD Operations, GUI Design

CERTIFICATIONS

- **Neural Networks Deep Learning**: DeepLearning.AI
- **Algorithmic Toolbox**: University of California, San Diego
- **Databases SQL for Data Science**: IBM
- **Getting Started with Accelerated Computing in Modern CUDA C++**: NVIDIA

ACHIEVEMENTS

- Achieved 9+ CGPA in the first year of B.Tech and currently maintaining an overall CGPA of 8.5+ up to 4th semester.
- Recipient of Bennett University Scholarship awarded based on JEE percentile.
- Solved 300+ problems in Data Structures and Algorithms on LeetCode and GeeksforGeeks; Rated 2-star competitive programmer on CodeChef.