RITI DUBEY

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🌐 Github   🌐 Linkedin   🌐 Portfolio

SUMMARY

I am a dedicated and curious learner, currently pursuing B.Tech in Computer Science . My goal is to explore opportunities where I can apply my knowledge in Artificial Intelligence and Machine Learning, work on challenging projects, and continue learning and growing in the field of technology.

EDUCATION

Bachelor of Technology (Computer Science and Engineering)   Aug 2023 - Aug 2027
  Bennett University(Times of India Group)

XII (CISCE Board)   July 2022
  ST. Thomas School Gopiganj Bhadohi

XI (CISCE Board)   July 2020
  ST. Thomas School Gopiganj Bhadohi

INTERNSHIP EXPERIENCE

DRDO – Project Intern (June 2025 – July 2025)   June 2025 - July 2025

- Developed 'Offline Messenger' — a peer-to-peer offline chat application supporting one-to-one and group messaging using Java, Swing, SQLite, and TCP Sockets.
- Future Scope: Integrating AI/ML-based voice message reader for visually impaired users.

PROJECTS

Inventory Management System

- Built a Python-based Inventory Management System with a simple Tkinter GUI.
- Used SQLite for secure and efficient CRUD inventory operations.
- Added features for quick item add, update, delete, and search.

SQL Injection Detection

- Built an ML-based SQL Injection Detection system using SVM, XGBoost, and BERT.
- Applied preprocessing and feature extraction (TF-IDF, Word2Vec, special characters) for query classification.
- Achieved good F1-score, effectively detecting malicious SQL queries.

RetinaSight AI- Diabetic Retinopathy – classification + Localization

- Built a deep learning system for Diabetic Retinopathy classification + optic disc/macula localization using Xception & EfficientNet with heavy augmentation.
- Integrated Grad-CAM interpretability and multi-task learning for classification + bounding-box regression.
- Developed a Flask-based web app for real-time retinal analysis

TECHNICAL SKILLS

- Programming Languages: Python, C++, Java (basic)
- Artificial Intelligence & Machine Learning: Deep Learning, TensorFlow, NumPy, Pandas, Neural Networks, LLMs (learning)
- Database Management: SQL
- Development Tools: Jupyter Notebook, VS Code, Git
- Competitive Programming: Solved 300+ DSA problems on LeetCode, CodeChef 2★ rating

CERTIFICATIONS

- Neural Networks & Deep Learning — DeepLearning.AI (Coursera)
- Algorithmic Toolbox — UC San Diego (Coursera)
- Databases & SQL for Data Science with Python — IBM (Coursera)