LIPAKHI TRIPATHY

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linkedin.com/in/lipakhi-tripathy/ github.com/lipakhi Portfolio

❖ SUMMARY

Computer Science engineering student with strong programming, web development, and machine learning skills. Experienced in building full-stack applications, predictive models, and data-driven solutions. Seeking opportunities to apply technical skills, solve real-world problems, and contribute to impactful engineering projects.

❖ EDUCATION

- Bachelor of Technology (CSE) — **CGPA: 9.32**
  C. V. Raman Global University, Odisha | 2022-2026 (expected)
- Higher Secondary (12th Grade) — **Percentage: 93.4%**
  DAV Public School, Odisha | 2019-2021
- Secondary (10th Grade) — **Percentage: 94%**
  St. Xavier International School, Odisha | 2017-2019

❖ SKILLS

- Programming Languages: C, C++, Python, Java, JavaScript
- Web Development: Frontend - React.js, Streamlit , Backend - Node.js, Express.js
- Tools & Frameworks: Git, GitHub
- Other Skills: Machine Learning, Deep Learning, Database Management

❖ PROJECTS

- **Restaurant Reservation Web App** *(React, Node.js, Express.js, MongoDB Atlas)* | GitHub *(In progress)*
  - Building a full-stack restaurant reservation system with a modern MERN architecture
  - Integrated MongoDB Atlas for efficient, cloud-hosted storage of user and reservation data
  - Designing a responsive UI with structured routing, reusable components, and an intuitive booking flow
  - Implementing RESTful APIs to handle reservations, user data, and business logic efficiently
- **Responsive Weather Web App** *(React, Tailwind CSS, OpenWeather API, Vite)* | GitHub | Demo
  - Developed a fully responsive weather web application, featuring real-time current weather, 5-day forecast, and hourly trends.
  - Integrated OpenWeatherMap API to fetch and display dynamic weather with clean UI components.
  - Implemented city-based search using React hooks, theme toggling, animated transitions, custom animations via Tailwind keyframes, and built dynamic data visualizations with interactive charts
  - Designed a user-friendly interface with reusable components, animated weather icons, and optimized API handling for performance and UX.
- **Book Recommendation System** *(Streamlit, Python, NLP, TF-IDF, Google Books API)* | GitHub
  - Built a content-based recommendation system using TF-IDF vectorization and cosine similarity
  - Preprocessed and merged datasets (books, tags) to create enriched textual features for model input
  - Integrated Google Books API to display genres, summaries, and covers alongside recommendations
  - Designed an interactive UI with Streamlit for real-time search and personalized book suggestions

❖ RESEARCH

- **Lung Cancer Prediction Using Machine Learning**
  - Developed a predictive model for lung cancer using Python and scikit-learn
  - Applied feature selection techniques (MRMR, Information Gain), improving performance by 20%
  - Trained and evaluated models (SVM, KNN, Random Forest) using cross-validation and F1-score
  - Visualized results and insights using Matplotlib and Seaborn