

RITIK RAJ

B.Tech Student in Computer Science Engineering (AI & ML)

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SUMMARY

I am a motivated B.Tech student specializing in Computer Science Engineering with a focus on AI and ML. I have hands-on experience in software development, data science, and machine learning through my projects, including a WhatsApp Chat Analyzer and a Book Recommendation System. My technical skills include Python, Flask, and data visualization. I excel in collaboration and problem-solving, aiming to leverage my skills in a dynamic work environment

PROJECTS

WhatsApp Chat Analyzer

- Live Demo - https://whatsapp-chat-analyzer-7ni0.onrender.com
- GitHub Repository - https://github.com/ritik-06/whatsapp_chat_analyzer
- Developed a Streamlit-based analytics tool that processes WhatsApp chat data to extract meaningful insights. Key features include:

Statistical Analysis: Total messages, word count, media shares, and link exchanges.

User Behavior Analysis: Monthly/daily activity trends, heatmaps, and busiest user rankings.

Data Visualization: Word clouds, emoji frequency charts, and common words identification.

Tech Stack: Python, Pandas, Matplotlib, Seaborn, Streamlit.

Skills Used: Exploratory Data Analysis, Data Visualization, Exception Handling, Deployment.

Book Recommendation System

- Live Demo - https://book-recommender-system-tiltj.onrender.com
- GitHub Repository - https://github.com/ritik-06/book_recommended_system
- Built a collaborative filtering-based recommendation engine that processes 278,000+ user ratings to suggest books. Features include:

Personalized Recommendations: Cosine similarity-based algorithm for accurate suggestions.

Interactive UI: Real-time search, dynamic book detail pages, and top-rated book displays.

Performance Optimization: Sparse matrix handling, LRU caching, and efficient data processing.

Cold-Start Problem Solving: Popularity-based rankings for new users.

Tech Stack: Flask, Python, Pandas, NumPy, Bootstrap.

Skills Used: Machine Learning Integration, API Development, Frontend & Backend Development.

SKILLS

Data Science & Machine Learning

Numpy

Pandas

Matplotlib

Scikit-Learn

Tensorflow

Programming

Python

R

Development

Flask

Streamlit

HTML & CSS

JavaScript

Version Control & Deployment

Git

Github

Soft Skills

Problem Solving

Debugging

Team Collaboration

Effective Communication

EDUCATION

B.Tech in Computer Science Engineering (AI & ML) 8.07(CGPA)

Heritage Institute of Technology

08/2022 - 05/2026
Kolkata

BSEB 80.2%

MBBL College

04/2019 - 04/2021
Muzaffarpur, Bihar

BSEB 84%

Mukherjee Seminary High School

04/2018 - 04/2019
Muzaffarpur, Bihar

LANGUAGES

English

Hindi