RITIK RAJ

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

+91-7091706517 @ ritik.raj.cse26@gmail.com   https://github.com/ritik-06   Kolkata, WB, India

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-q5ox.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-tltj.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)
Heritage Institute of Technology(8+ cgpa)
📅 08/2022 - 05/2026
📍 Kolkata

BSEB
Mukherjee Seminary High School
📅 04/2019 - 04/2021
📍 Muzaffarpur, Bihar

BSEB
MBBL college
📅 04/2018 - 04/2019
📍 Muzaffarpur, Bihar

LANGUAGES

English   ●●●●○

Hindi   ●●●●○