

VAIBHAV RAJ

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EDUCATION

Vellore Institute of Technology

Bhopal, India

Computer Science & Engineering; GPA: 8.23

October 2022 - Ongoing

KEY SKILLS

TOOLS: MS Excel | Google Sheets | Power BI (Basics) | Canva | MS PowerPoint

TECHNICAL STRENGTHS

SOFTWARES: Data Analysis (Excel, Google Sheets) | Understanding of SaaS & Web Products

Chess Master

- Developed multiplayer chess platform using Socket.IO, Node.js, and Express, handling real-time gameplay with 99% event reliability.
- Implemented move validation using chess.js library with spectator mode, supporting 100+ concurrent games with real-time sync.
- Built move history navigation with session persistence, maintaining game state across browser refreshes with 95% retention rate.
- Added back/forward navigation of move history and seamless session resumption using persistent client state.

Google Docs Clone

- Built collaborative text editor using React, Quill.js, and Socket.IO, supporting real-time editing for 15+ users.
- Implemented document persistence with MongoDB, 500ms auto-save achieving 99% data integrity.
- Developed Express/Node.js REST APIs with CRUD operations, handling 500+ daily requests with sub-200ms response time.

CERTIFICATIONS

Google Advanced Data Analytics

September 2025

- Completed a comprehensive program covering data, cleaning, visualization, statistical analysis, and machine learning using Python and SQL for real-world business scenarios.

Data Analysis with Python (IBM)

June 2025

- Gained hands-on experience in data manipulation, visualization, and statistical modeling using python libraries like Pandas, NumPy, and Matplotlib.

BUSINESS STRENGTHS

- Strong communication and presentation skills
- Quick learner in fast-paced environments
- Adaptable and growth-oriented mindset
- Product Demonstration & Presentation

