

RUCHALI BABULKAR

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SUMMARY

Enthusiastic Computer Engineering graduate with a comprehensive knowledge in technologies like Machine Learning, Artificial Intelligence and languages such as Python, Java and tools like Excel, Power BI and Tableau and database MySQL. Seeking to contribute to innovative projects, leveraging my skills to create impactful solutions that enhance user experiences and drive business growth.

WORK EXPERIENCE

Take It Ideas Innovation Solution

Web Developer Intern

June 2024 – September 2024

- Worked on project **UI Builder App, and Career Builder App, and Designed more than 10 UI.**
- Acquired skills in UI design and presentation skills.
- Received a **Certificate of Excellence for performance** in driving the UI Builder development project.
- Technologies used:** RDF Framework, HTML, CSS, JavaScript.

SKILLS

Programming Languages: **Python, Java, HTML, CSS**

Libraries: **NumPy, Pandas, Matplotlib, Seaborn**

Database: **MySQL**

Visualization Tools: **Power BI, Tableau, MS Excel**

Technologies: **Machine Learning, Artificial Intelligence**

PROJECTS

CAB BOOKING SYSTEM – SQL DATA ANALYSIS | [\[GitHub\]](#)

Aug 2025

- Designed a relational database (Customers, Drivers, Cabs, Bookings, Trips, Feedback) and wrote advanced SQL queries.
- Analysed customer retention, driver performance, revenue trends, and trip patterns to recommend operational improvements.
- Identified **top 3 revenue-generating routes** and recommended dynamic cab allocation, **improving efficiency by 15%.**

FINTRACK: SMART FINANCIAL ANALYTICS – EXCEL DASHBOARD | [\[GitHub\]](#)

Aug 2025

- Developed an interactive Excel dashboard **analyzing \$5M+ sales data across 50+ products and 10 countries.**
- Created Pivot Tables and Pivot Charts to visualize revenue, profit, and discount trends across segments and time periods.
- Performed **seasonality and year-over-year analysis** to identify peak sales periods and growth opportunities.
- Delivered **actionable insights** to support pricing, inventory planning, and regional sales strategy.
- Technologies to be used:** Excel (Pivot Tables, Pivot Charts, Slicers, Timelines).

SECURITY SANDBOX USING FEDERATED LEARNING | [\[GitHub\]](#)

Jan 2025

- Developed a Docker-based sandbox for **secure file testing.**
- Implemented federated learning **models for threat detection.**
- Integrated real-time result visualization using Python and JavaScript.
- Technologies to be used:** Python, Docker, Federated Learning, JavaScript, HTML/CSS, MySQL.

EDUCATION

B. Tech in Computer Engineering

7.94 CGPA

MKSSS Cummins College of Engineering for Women, Nagpur

2025

Senior Secondary

91.33 %

Maharashtra State Boards of Secondary and Higher Secondary Education

2021

CERTIFICATION

- Ongoing **Master's Certification in Data Science & Analytics with Artificial Intelligence** — IT Vedant Institute.
- Foundation in SQL** — IT Vedant, Nagpur | Sep 2025
- Foundation in MS Excel** — IT Vedant, Nagpur | Aug 2025

ACHIEVEMENTS

- Lila Poonawalla Scholarship recipient (2021–2025)**
- Vice President**, Computer Society of India Student Club (2024-2025).
- Completed BCG Data Science Job Simulation on Forage** — March 2025