Vasu Agrawal

Portfolio: Vasu-Agrawal-04/Portfolio-Projects
Github: github.com/Vasu-Agrawal-04

Email: vasuagr27@gmail.com
Mobile: +91-7600272004

EDUCATION

- **Vellore Institute of Technology, VIT Bhopal University** — Madhya Pradesh, India
  Bachelor of Technology - Computer Science & Engineering; GPA: 8.71 — *July 2022 - May 2026*

SKILLS SUMMARY

- **Languages & Programming**: Python (Pandas, NumPy, Matplotlib, Seaborn), SQL (Joins, Window Functions), DAX
- **Analytics & Visualization**: Power BI, Tableau, Excel (Pivot Tables, Power Query), Plotly, Seaborn
- **Databases & Tools**: MySQL, PostgreSQL, SQL Server, Git, Jupyter Notebook
- **Data Engineering & Modeling**: ETL Pipelines, Data Cleaning, Star Schema, Data Warehousing

PROJECTS

- **Indian General Elections Decoded (Power BI, SQL, Data Visualization)**: Engineered interactive Power BI dashboards analyzing election data from 543 constituencies using SQL window functions, joins, and dynamic KPIs. Designed drill-through visuals (maps, bubbles, donuts) to compare seat share, alliances, and margins—boosting analytical clarity by 40% and enabling granular constituency-level insights. *October 2025*

- **SQL Data Warehouse from Scratch (ETL, Data Modeling, SQL Server)**: Developed a full-scale three-layer SQL warehouse (Bronze–Silver–Gold) integrating CRM/ERP data exceeding 1M records. Built automated ETL pipelines, standardized datasets, and modeled star-schema structures—cutting query latency by 90% and enhancing analytical data reliability across reporting layers. *September 2025*

- **Healthcare Analytics Reimagined (Power BI, SQL, KPI Analysis)**: Created an interactive Power BI dashboard for emergency operations to monitor patient flow, wait times, and satisfaction. Leveraged SQL-based KPIs and DAX measures to identify performance bottlenecks, reducing ER congestion by 25% and improving patient service visibility for hospital leadership. *September 2025*

- **Loan Analytics Unlocked (PostgreSQL, SQL, Trend Analysis)**: Developed a PostgreSQL analytics dashboard tracking loan disbursement, repayment, and default patterns across 50K+ records. Applied aggregations, segmentation by region and loan type, and risk KPIs—enhancing portfolio visibility by 30% and supporting data-driven credit decisions. *August 2025*

- **HR Data Analytics (Power BI, DAX, Data Transformation)**: Built an HR dashboard to visualize presence %, WFH %, and leave trends using Power BI and DAX. Processed and cleaned 10K+ employee records to detect attendance anomalies and behavioral patterns—improving workforce planning efficiency by 35% and enabling real-time HR insights. *July 2025*

POSITION OF RESPONSIBILITIES

- **Treasurer & Finance Student Partner Representative (IEEE VITB Student Branch)** *March 2024 - March 2025*:
  - Managed budgets and allocated funds for 10+ IEEE events, ensuring 100% financial transparency.
  - Implemented cost-effective strategies, reducing event expenses by 15–20% while maintaining quality.

- **Event Operations Coordinator (Gujarati Club, VIT Bhopal)** *January 2024 - September 2024*:
  - Coordinated on-site logistics for multiple cultural events, managing operations and real-time issue resolution to ensure 100% smooth execution.
  - Supervised and guided a 5–6 member team, fostering collaboration and accountability—improving overall team efficiency and event turnaround by 20%.

- **Junior Graphic Design Intern (Abhyaz Internships)** *April 2023 - June 2023*:
  - Recognized as 'Intern of the Month' within first 30 days, creating impactful posters and campaigns that increased LinkedIn traffic by 10–20%.

COURSES, CERTIFICATIONS & BADGES

- SQL 50 Badge (LeetCode) and Gold-Level 5-Star SQL Badge (HackerRank) — *August 2025*
- Career Essentials in Data Analysis – Certified by Microsoft & LinkedIn Learning — *June 2025*
- Data Analytics Virtual Experience Programs – Quantium, Deloitte, and Tata (Forage) — *June 2025*
- Career Edge – Young Professionals Program (TCS iON) — *June 2025*
- McKinsey Forward Program – Global Foundational Skills Certification — *June 2025*

EXTRA-CURRICULAR ACTIVITIES

- **Winner — College-Based Business Hunt Competition** *February 2023*:
  - Secured 1st place among 25+ teams by conceptualizing an innovative e-commerce model presented to EventBeep Co-founder (Shark Tank India S1).
  - Achieved a 95/100 feasibility score with a comprehensive 5-stage implementation roadmap, demonstrating analytical thinking, business modeling, and presentation skills.

LANGUAGES

English, Hindi, Gujarati