MANAV SHARMA

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Summary

MCA student at IIT Patna (IIIT Ranchi collaboration) and an aspiring data analyst with a strong foundation in Python, SQL, and data visualization, plus hands-on experience shipping full-stack, production-deployed data products.

Projects

Anomalyze — AI-Assisted CSV/Excel Anomaly Detection Platform [Repo] [Live Site]

Next.js, React, TypeScript, Tailwind CSS, Recharts, Gemini API, Vitest

- Built a client-side profiling engine processing **50,000-row CSV/Excel files in ~30 seconds** with no server round-trip, auto-inferring 6 column types and dynamically adapting statistics, charts, and narrative insights.
- Engineered anomaly detection using **MAD robust-z scores, Tukey IQR, and time-aware rolling analysis**, flagging outliers in **~20 seconds on a 50,000-row dataset** and reducing manual Excel-based discovery from **20 minutes to seconds**.
- Implemented a deterministic fallback for the Gemini chatbot and report generation layer, keeping the application fully functional even when **LLM quota is exhausted**.
- Shipped **83 automated tests using Vitest** and achieved **0 WCAG AA accessibility violations** with axe-core across light and dark themes.

Owner Finder — QR-Based Vehicle Contact System [Repo] [Live Site]

- **Problem:** Solved vehicle owners' privacy concerns by enabling contact without sharing personal phone numbers.
- **Solution:** Built a QR-based contact system with plate verification and account lockout after 3 failed attempts.
- **Outcome:** Deployed on **Supabase** and **Vercel** at **$0 hosting cost**, with a self-service QR sticker generator.

EV Charging Station Demand Analysis [Repo]

Python, SQL, Tableau, Excel

- Analyzed EV registration, population, and charging data to identify **high-growth regions** and **infrastructure gaps**.
- Built Tableau dashboards tracking **EVs per 1,000 people and charging density** to guide infrastructure expansion.

Customer Sales Dashboard [Repo] [Live Dashboard]

- Analyzed multi-year sales data using **Power BI** and **Power Query** to identify sales trends, regional gaps, and top-performing products.
- Built interactive **dashboards** tracking revenue, growth, and product performance to support data-driven regional decisions.

Technical Skills

- **Data Analysis & BI:** EDA, Data Cleaning, Feature Engineering, KPI Tracking, Dashboard Design, Trend Analysis, Correlation Analysis, Statistical Anomaly Detection (MAD, Tukey IQR)
- **Languages & Tools:** Python (Pandas, NumPy, Matplotlib), SQL, TypeScript, Power BI, Tableau, Advanced Excel
- **Web Development:** Next.js, React, HTML/CSS/JavaScript, Tailwind CSS, Recharts, Git/GitHub, Vercel, Full-Stack Deployment
- **Databases & Platforms:** MySQL, PostgreSQL, Supabase (RLS, Edge Functions), Gemini API Integration, Vitest, Jupyter Notebook, Google Colab, VSCode

Education

Master of Computer Applications (MCA), Hybrid — IIT Patna

In partnership with IIIT Ranchi — Jan 2026 – Dec 2027

Bachelor of Computer Applications (BCA)

Jagannath Institute of Management and Science, Delhi; CGPA: 6.78 / 10 — Jun 2022 – Aug 2025

Achievements

- Contributed to **open-source projects** on GitHub through **bug fixes, feature improvements, and documentation**, working with maintainers via pull requests and code reviews.
- Participated in **hackathons**, shipping **working prototypes under tight deadlines** with teams across data, AI, and full-stack ideas.