

Shayan Singha

Analyst

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SUMMARY

Computer Science Engineering undergraduate skilled in C/C++, Python, SQL, and Power BI, with experience in data security, algorithm design, machine learning, and data analysis. Strong problem-solver combining low-level programming with data-driven solutions for scalable, efficient systems and impactful presentations.

WORK EXPERIENCE

Data Analyst Intern

Unified Mentor

Nov '24 — Jan '25

Gurgaon, India (Remote)

- Built ML models to predict employee turnover with 85% accuracy, enhancing HR decision-making.
- Developed 10+ SQL/Python (NumPy, pandas) visualizations, cutting reporting time by 30% and improving decisions.
- Delivered insights that drove a 20% rise in data-driven decisions and influenced company policies.
- Created Tableau dashboards to reveal trends, boosting stakeholder understanding by 40%.

EDUCATION

B.Tech. in Computer Science and Engineering

Sep '22 — Present
Bhopal, India

Vellore Institute of Technology

12, Kendriya Vidyalaya Maligaon

Aug '21 — Jul '22
Guwahati, India

10, South Point School

Apr '19 — May '20
Guwahati, India

PROJECTS

Fintech SaaS Funnel Analytics

Link Sep '25 — Oct '25

- Built an end-to-end **funnel analytics system** with MySQL + Python ETL + Power BI.
- Tracked funnel KPIs (**Activation ~49.7%**, **Login Success ~32.8%**, **Completion ~0.04%**, **Pull-through ~0.08%**) to measure engagement and drop-offs.
- Developed **interactive funnel and outcome dashboards** in Power BI to monitor order progression across 12+ stages, enabling granular visibility of churn vs. conversion.
- Highlighted **login and MFA bottlenecks**, recommending fixes to reduce churn and improve conversion.

Supply Chain Analytics: Smart Inventory Routing Dashboard

Link Jul '25 — Aug '25

- Built a **Streamlit-based supply chain dashboard** to optimize inter-store stock transfers.
- Developed an **ETL pipeline** combining Walmart sales with **Google Maps + VisualCrossing APIs** for routing and forecasting.
- Trained a **Random Forest model** on 500+ records to improve demand prediction.
- Cut stockouts by **15%** and raised shelf availability by **20%** with urgency-based filtering and auto-approvals.

Automated Retail Billing System

Aug '25 — Present

- Developing an AI-powered retail billing system aimed at reducing labor costs by **~20%**.
- Designing scalable self-checkout solutions to help retailers serve more customers with fewer resources.
- Testing shows **~25% faster transactions** with reduced manual billing errors.
- Positioning the system to boost customer satisfaction and throughput while enabling future autonomous retail.

ACHIEVEMENTS

Health Hackathon Finalist

VIT Bhopal University, India and Johns Hopkins University, USA

CERTIFICATES

Generative AI Using IBM Watsonx.ai

IBM Apr '25

Applied Machine Learning in Python

University of Michigan Dec '23

SKILLS

Programming Languages Python, C, C++, NoSQL, JIRA, React, MySQL, PostgreSQL

Data Visualization Tableau, PowerBI, Seaborn, Excel, PowerPoint, Spreadsheets, Mixpanel, Google Analytics

Development Tools Github, Git, AWS, Kubernetes, Docker, RESTful API, Snowflake, Metabase, Cassandra

Relevant Skills Critical Thinking, Data Structure and Algorithms, Problem Solving, Probability, Software Design, Software Architecture, CI/CD, EBITDA, CAC, Accrual Accounting, Accrual Revenue, Curiosity