

# 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

### Bachelor of Technology in Computer Science

Vellore Institute of Technology

Sep '22 — Present  
Bhopal, India

### 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

IBM Apr '25

### Applied Machine Learning in Python

University of Michigan Dec '23

## SKILLS

**Programming Languages** Python, C, C++, MySQL, PostgreSQL, NoSQL, JIRA, Next.js, React, Node.js

**Data Visualization** Tableau, PowerBI, Seaborn, Plotly, Matplotlib, Posthog

**Development Tools** Github, Jupyter Notebook, VS Code, Git, Agile, AWS, Docker, API, Oracle, Selenium, Linux

**Machine Learning Frameworks** Tensorflow, PyCharm, NumPy, Scikit-Learn, LLMs, PySpark

**Relevant Skills** Critical Thinking, Solution Orientated, Verbal Communication Skills, Data Structure and Algorithms, Object Oriented Programming, Problem Solving, Proactive, SDLC, DNS, Virtualization, Operating Systems