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   Nov '24 — Jan '25
Unified Mentor   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 (AI ML), VIT Bhopal University   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
- Designed and deployed an **end-to-end funnel analytics pipeline** using MySQL for data storage, Python for ETL, and Power BI for visualization, improving accessibility of insights for stakeholders.
- 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 with weather/traffic data 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, Go, Next.js, R
Data Visualization   Tableau, PowerBI, Seaborn, Plotly, Matplotlib
Development Tools   Github, Jupyter Notebook, VS Code, Git, Agile, AWS, Docker, API, Oracle, Selenium
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, SDLC, Problem Solving, Proactive, Attention to Detail