

Shubham Dinesh Parulekar

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SUMMARY

Data Analyst with 3+ years of experience transforming complex datasets into actionable insights across healthcare, retail and product domains. Skilled in SQL, Python, and BI tools with expertise in ETL automation, predictive modeling, and cloud analytics

EDUCATION

University of Illinois, Urbana-Champaign | MS in Information Management **August 2024 - May 2026**

Courses: Statistics, Data Modeling, Data Science, Applied Machine Learning, Data Mining, Data Warehousing, Business Intelligence

University of Mumbai | B.Tech in Electronics Engineering **June 2017 - May 2021**

SKILLS AND CERTIFICATIONS

Programming and Data Tools: Python, R, SQL, Power BI, Tableau, Spark, Hadoop, MongoDB, Airflow, Docker, Git, dbt

Cloud Platform: AWS (S3, Redshift, SageMaker), Azure (Data Factory, Databricks), GCP (BigQuery, GKE), Snowflake

Analytics and ML: Predictive Modeling, ETL Automation, Data Visualization, A/B Testing, Generative AI and LLM Development

Certification: Microsoft Certified: Power BI Data Analyst, Microsoft Certified: Azure Developer, Professional Scrum Master

WORK EXPERIENCE

Research Assistant at *School of Information Science, University of Illinois* **August 2025 - Present**

- Fine-tuning LLMs on historical and cultural datasets using metadata-driven pipelines that simulate diverse contexts and timeframes for improved narrative reasoning.
- Creating benchmarks that measure historical and narrative reasoning, enabling insights into cultural patterns, advancing AI safety and explainability.

Student Researcher at *Center for Health Informatics, University of Illinois* **August 2025 - Present**

- Engineering predictive models to forecast national drug demand by integrating multiple datasets ,improving planning accuracy and supply chains resilience across South America.
- Partnered with Pan-American Health Organization to implement scalable, data-driven workflows that support policy decisions and efficient resource allocation.

Business Data Analyst at *Quantiphi Inc* **July 2021 - August 2024**

Business Data Analyst Intern at *Quantiphi Inc* **January 2021 - July 2021**

- Designed and deployed ETL scripts and scheduled workflows that cut reporting time from 3 days to a few hours, enabling timely insights and freeing analysts for strategic projects.
- Coordinated with sales and product teams to translate business goals into data solutions. Developed dashboards that guided budget reallocations, improving marketing ROI by 20%.
- Aggregated transaction, event-tracking, and CRM data to uncover churn and retention patterns, producing executive reports that optimized win-back campaigns and boosted retention by more than 10%
- Executed A/B tests to evaluate product feature changes, clearly communicating results through dashboards and stakeholder presentations that informed decision-making.
- Collaborated with data engineering teams to standardize data collection and improve prediction models, leading to accurate forecasts and stronger trust in predictive analytics.

Data Analyst Intern at *BitGenie Technologies* **April 2020 - July 2020**

- Built interactive reports and visualizations that tracked and segmented user interactions helping the product team prioritize high-impact features and enhanced user experience.
- Designed easy-to-use SQL queries that answered recurring business questions, reducing the need for engineers to pull custom reports and enabling faster decision-making by operations teams.

PROJECTS

Smart Inventory Planner for Small Retailers (Python + Excel + Power BI):

- Built a dashboard-driven tool to analyze sales trends, flag overstock/stockout items and optimize inventory balance by 18%.
- Enabled data-backed order decisions that would reduce holding costs and lost sales for small retailers with limited resources.

Research Paper Summarizer (Python + NLP + Streamlit)

- Engineered an NLP-powered tool that ingests research papers and generates tiered outputs, summaries, explanations, linked concepts, and related work suggestions.
- Developed an automated citation export and related author/publication works modules, creating a practical assistant for researchers and students.

Real-World Job Trends Scanner (Python + Data Mining + Matplotlib):

- Created a personal skill-tracking tool by scraping 10K+ job listings to highlight high-demand skills and make data-driven decisions about personal career development.
- Extracted job post data using Python, then cleaned and visualized it using Pandas and Matplotlib, and crafted filters by role, location, and industry to compare demand shifts across job categories.