VAISHNAVI SACHIN SHASTRI

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EXPERIENCE

College of Arts and Sciences | *Data Analyst* | *Bloomington, IN,USA* 				01/2025 – 05/2025
- Developed a **Rust-based implementation for OpenBT**, enabling reproducible and verifiable data analysis in Zero-Knowledge environments, improving trust in AI-driven insights
- Migrated 10,000+ lines of legacy **C++ code to Rust**, utilizing strict typing to reduce memory-related bugs by 60% and enhance reliability of statistical tools

MyEdmaster LLC | *Data Science Intern* | *Leesburg,VA,USA* 				06/2024 – 08/2024
- Leveraged **Excel, Power Query, and Power Pivot** to clean and analyze healthcare data containing over 75K records, extracting key trends in treatment timelines and recovery outcomes to support targeted early intervention strategies
- Created **15+ pivot tables** and summary reports to visualize patient recovery trends, supporting feature selection for ML models
- Designed a Python pipeline to automate the integration of 8+ healthcare datasets, **reducing data processing time by 40%**
- Presented findings through 4 interactive dashboards created using **PowerBI**, enabling the education team to develop targeted case studies, thereby **reducing content development time by 30%**

Cognizant Technology Solutions | *Programmer Analyst* 				11/2020 – 06/2023
Client: American Tire Distributors (ATD)
- Optimized and wrote **SQL Migration scripts in PostgreSQL** to integrate 20+ data sources (CRM, POS, inventory) through robust **ETL pipelines**, reducing data access delays by 45% and enabling real-time data analytics across cross-functional teams
- **Resolved logic bugs in production environment** tracked via Jira by rewriting and improving 25+ PostgreSQL queries, views, procedures daily, improving data consistency, automating operational report delivery, and reducing manual QA efforts by 30%
- **Built interactive Tableau dashboards** at the end of each sprint to visualize tire sales, return rates, and distribution lead times, aligning visualizations with user stories to support agile supply chain decisions, **improving inventory forecasting by 12%**

Client: Deutsche Telekom, Germany
- Led analysis of telecom usage across 10M+ usage and recharge records using **PySpark and Hive**, uncovering regional service issues and churn patterns, which informed operational fixes, enabling targeted retention strategies across 5 high-risk regions
- Conducted **A/B testing** on personalized marketing campaigns using statistical analysis in Python (**t-tests, uplift modeling**) to measure effectiveness, resulting in a 6% increase in customer engagement within priority segments

Cognizant Technology Solutions | *Data Intern* 				01/2020 – 05/2020
Client: Rogers Bank, Canada
- Analyzed 500K+ anonymized credit card and account records using **Power Query and Excel** identify financial KPIs like average spend, and repayments behaviour helping analysts refine reporting logic and improve monthly financial summaries
- Developed and standardized 200+ **MySQL procedures** to support financial analysis and reporting; resulting in **reduced query runtime by 20%** and ensured regulatory accuracy by converting business rules into audit-ready SQL logic

EDUCATION

Indiana University Bloomington 				08/2023 – 05/2025
Masters of Science in Data Science 				*CGPA: 3.7/4.0*
> **Relevant Courses:** Machine Learning, Statistics, Exploratory Data Analysis, Advanced Database Concepts, Data Visualization, Data Mining,

Savitribai Phule Pune University 				08/2017 – 10/2020
Bachelor of Technology, Electronics Engineering 				*CGPA: 8.98/10.00*

SKILLS

Languages:	Python, R, C++, RUST, HTML CSS, Javascript, PL/SQL
Databases:	MySQL, PostgreSQL, NoSQL, MongoDB, Vertica
Cloud Technologies:	Snowflake, GCP, Neo4j, AWS S3, Oracle, Azure
Statistical Analysis:	Hypothesis testing, ANOVA, Chi-Square, Predictive Analytics, A/B Testing
Analytics Tools:	Microsoft Excel, Tableau, VBA, PowerBI, Alteryx, Looker, Google Analytics
ML/DL Algorithm:	Regression, Classification, Clustering, Decision Trees, Random Forest, XGboost, NLP, LLM

PROJECTS

WASH Services Access Analysis | *Plotly Dash, Seaborn, Matplotlib, Pandas, NumPy* 				09/2024 – 12/2024
- Conducted in-depth analysis on a dataset of **46,303 records spanning 9 key indicators** related to WASH access, generating actionable insights to support strategic resource distribution and policy planning in underserved and high-need regions
- Designed and developed comprehensive data visualizations including **heatmaps, bar charts, and geospatial maps** to explore and communicate global disparities in WASH services, aiding in clearer stakeholder understanding and data storytelling