TULSI SHRIVASTAVA

DATA ANALYSIS • BUSINESS INTELLIGENCE • OPTIMIZATION

Using data models & visual storytelling to improve outcomes for underrepresented populations

814.792.5033
Fairfax, VA
tshrivas@gmu.edu
tulshri.github.io/portfolio
U.S. Citizen

EDUCATION

M.S. Data Analytics Engineering
George Mason University • 2022 - 2024 • **Graduation: May 2024** • **GPA** 3.8/4

B.S. Mathematics & Information Systems *(with Minor in **Marketing**)*
University of Pittsburgh at Johnstown • 2015 - 2019 • Summa Cum Laude: **GPA** 3.8/4

WORK EXPERIENCE

Graduate Research Assistant • Community Informatics Lab
GMU Department of Information Sciences & Technology • May 2023 - Present

- *Lead researcher on state-funded project for Virginia Board for People with Disabilities (VBPD) to understand the fragmentation of disability service information*
- *Conducting interviews with various disability providers using snowball sampling; including coordinating ASL communication & managing 50+ transcriptions*
- *Qualitative data coding and analysis of interviews and surveys in Excel and Atlas TI to identify information gaps*

Business Intelligence Analyst
Learning Sciences International • 2019 - 2022

- *Built and managed 30+ user-facing KPI dashboards embedded in the application environments from proof-of-concept stage to production deployment, which were used to market the strength of the tool and help educators with academic success*
- *Process Efficiency: Reduced the manual run time of an internal process for a large school district from 8 hours per week to 10 minutes per month*
- *Wrote SQL queries for large databases (Postgres, Redshift, Snowflake) and employed BI Tools (Power BI, Sisense) to analyze datasets and create actionable reports for internal and external userbase*
- *Established survey/feedback and user engagement dashboards for use by management, SMEs, product owners, support and sales teams*
- *Designed data models with engineers and stakeholders to fit reporting requirements*
- *Served as liaison between software developers, education consultants, and end-users*

Systems Analysis Intern
Problem Solutions (Software) • 2018 - 2019

- *Employed UI/UX design, rapid prototyping methods, and requirements elicitation techniques to software solutions for commercial and government clients*
- *Prepared business documentation – product backlogs, proposals, roadmaps, diagrams, POA&Ms*
- *Assisted in the QA Testing of applications during development*

PROJECTS

Data Analysis

- *Utilizing **SAS** to Study U.S. Census Data and Highlight Talent Potential of Johnstown, PA*
- *Educational Attainment Level: Examining Its Influences from an International Lens (**R, Python, SQL**)*
- *Predicting Airline Delays via **Regression in R** using Bureau of Transportation Statistics Data*
- *Sentiment Analysis of Amazon Book Reviews in **Python***
- *Operations Research: Coffee Sales Problem using **Linear Programming** in Analytic Solver*

Co-Author

- *H.A.T. **QA Model**: Developing a Question-Answering NLP System*
- ***Proposal** for Mapping Information Ecology: Understanding the Fragmentation of Disability Service Information*

SKILLS

Reporting & Visualization

- Power BI (+DAX)
- Tableau
- Sisense
- KPI Dashboard Creation

Data Analysis & Operations Research

- SQL, R , SAS
- Math Model Formulation:
  - Gurobi Optimization
  - Python + SQLite Studio
  - Excel Analytic Solver
- NLP using Python
- Statistical Analysis
- Relational Data Modeling
- Qualitative Data Coding
  - Atlas TI
- Databricks

Agile Development

- Scrum, Rapid Prototyping
- Wireframes, Mockups
- UI/UX Design, Adobe XD

Communication

- Public Speaking
  - Trained Tutor ✓
- Presentation Design
- Graphic Design
- Hindi & Urdu

VOLUNTEER

Unity Coalition of the Southern Alleghenies
2017 - Present
Co-chair of small town social justice advocacy organization

NAACP Johnstown
2021 - Present
Lead graphic designer and event planner with community leaders

In This Together Cambria
2020 - 2022
Former co-chair of advocacy team that championed community-led solutions to reduce the spread of COVID-19