

Fujaila Shahnaj

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Authorized to work in the U.S.

PROFESSIONAL SUMMARY

Data Analytics professional specializing in healthcare analytics, predictive modeling, and BI dashboarding. Built clinical risk prediction models (96%+ data quality, ROC-AUC 0.79), enterprise Power BI dashboards for executive KPI monitoring, and ML pipelines analyzing 368K+ records. Skilled in Python, SQL, Power BI (DAX, M, star schema), AWS, and dbt. MS Computer Science (GPA 3.87, graduating May 2025). Seeking Data Analyst or BI Analyst roles to deliver actionable insights that drive business decisions.

EDUCATION

M.S. Computer Science, Clemson University | GPA: 3.87

August 2023- May 2025

B.Sc. Computer Science & Engineering, CUET

TECHNICAL SKILLS

Languages: Python, SQL | **Data Analytics:** Data Cleaning, EDA, KPI Development, Statistical Analysis, A/B Testing, Dashboarding | **Machine Learning:** Logistic/Tree-Based Models, Regression, Classification, Feature Engineering, Model Evaluation, BERT/roBERTa | **Generative AI:** Prompt Engineering (ChatGPT, Claude, Llama), LLM fine-tuning, NLP pipelines | **Visualization & BI:** Power BI (DAX, Power Query/M, star schema, RLS), Tableau, Matplotlib, Seaborn | **Cloud & Big Data:** AWS (S3, Glue, Redshift), Apache Spark | **Databases:** MySQL, Oracle, DuckDB | **Data Engineering:** dbt (models, tests, documentation), ETL/ELT workflows

EXPERIENCE

Research Assistant – HAIE (Human AI Empowerment) Lab | Clemson University | May 2025 – Present

- Analyzed 368K+ Product Hunt community narratives using ML/NLP to identify engagement patterns and product adoption drivers, delivering actionable insights to cross-functional teams
- Built automated data preprocessing pipelines, reducing manual processing time by 60% and improving data quality consistency
- Developed multi-label BERT classifier (F1: 0.84) to structure unstructured feedback into 7 categories and 14 subcategories for trend analysis

Graduate Assistant – Data Analytics | Clemson University Graduate School | Jan 2024 – May 2025

- Designed enterprise Power BI dashboards with DAX, M, and dimensional modeling to track enrollment, funding, and operational KPIs for senior leadership decision-making
- Implemented row-level security (RLS), automated refresh schedules, and version control for governed data models
- Collaborated with VPs and deans to align analytics deliverables with strategic goals and operational priorities

Data Science Intern | Data Visualization Lab | Clemson Library | Aug 2023 – Jan 2024

- Built time-series forecasting models (85% accuracy) on 50K+ library usage records, enabling resource planning and reducing operational costs by 15%
- Performed end-to-end ETL: data wrangling, cleansing, SQL transformations, and feature engineering on multi-source datasets
- Developed interactive Power BI and Tableau dashboards used by non-technical stakeholders for capacity optimization

PROJECTS

CardioInsight-AI: Clinical Risk Analytics & Dashboarding (Healthcare Project)

- Built end-to-end cardiovascular analytics pipeline with HIPAA-compliant de-identification, 20+ data quality checks (96.3% quality score), and dbt-engineered star schema from 68K patient records
- Engineered features using **dbt**, producing a clean star-schema mart from 68K patient records.
- Developed ML models for cardiovascular risk prediction (ROC-AUC: 0.79) using logistic regression and random forest with 15+ engineered clinical features
- Designed a professional **Power BI clinical dashboard**: KPI cards, risk funnel, segmentation by age/BMI/cholesterol, trend charts, and patient drill-down. Created reproducible analytics artifacts: EDA notebooks, validation reports, and documentation

Community Insights Analytics (Product hunt- 368K+ Records)

- Classified user sentiment and friction points across 368K+ comments using BERT/roBERTa (F1: 0.84), uncovering adoption barriers and feature requests
- Conducted longitudinal trend analysis to identify product improvement opportunities and high-impact engagement drivers
- Delivered stakeholder-ready reports translating ML findings into business recommendations

OTHER EXPERIENCE

Senior Lecturer | Dept. of Computer Science & Engineering | Port City International University (PCIU)

Jan 2014 – Present (Study Leave)

- Taught database systems, data structures, and theory of computing; supervised 10+ student ML/AI research projects
- Currently on study leave to complete MS and transition to full-time industry data analytics role