HYMA ROSHINI GOMPA

Baltimore, MD | hymarog1@umbc.edu | 940-843-6984 | www.linkedin.com/in/gompa-hyma | github.com/Roshinigompa

EDUCATION

Masters in Data Science | University of Maryland Baltimore County | GPA:3.95/4.0

May 2025

Bachelors in Computer Science | Lovely Professional University | GPA:3.9/4.0

May 2022

<u>SKILLS</u>

Programming: SQL, Python (NumPy, Pandas, Scikit Learn), R (ggplot2, dplyr), C++ | Web Technologies: HTML, CSS, Java Script | Database Management: MySQL, TSQL, PostgreSQL, Snowflake| Statistics & ML: Hypothesis testing, A/B testing, Causal Inference, Regression | Tools: Tableau, Power BI, MS Excel, MATLAB, Salesforce Apex, LWC | DevOps & CI/CD: Docker, Jenkins, Kubernetes, Git | Collaboration Tools: JIRA, Confluence, GitHub.

RELEVANT EXPERIENCE

Business Analyst Intern | Bizinc

Oct 2024 - Dec 2024

- **Authored 15+ technical documentation assets**, enhancing cross-team onboarding by 30% through clearer project specifications and reducing misunderstanding across teams.
- Led 10+ requirement-gathering sessions with product and business teams, ensuring project alignment with client needs, contributing to a 25% boost in user engagement.
- **Designed a Tableau and SQL-based performance dashboard** that tracked **50+ KPIs,** reducing manual reporting time by 40% and improving decision-making efficiency by **40%**.
- Built an automated data pipeline in SQL, Python, and JavaScript, reducing weekly reporting time by 40% and improving data processing efficiency for the management team by 30%.

Data Analyst | Josh Technology Group

Jun 2022 - Jul 2023

- Improved product review classification accuracy by 20% through a logistic regression model with 85% accuracy, using NLP preprocessing on 10,000+ reviews for clients Medstar, Bwell, and Walgreens.
- Developed 5 data marts by transforming complex SQL queries, achieving a 95% data integrity rate and enhancing data readiness for analysis within the data science team.
- Optimized 20+ Tableau dashboards, reducing report generation time by 35% and increasing report accuracy by 25% by identifying key data insights and streamlining dashboard workflows.
- Executed high-volume data analysis for datasets of up to 100,000 rows, utilizing advanced Excel techniques to meet operational needs with 98% accuracy, maintaining data handling efficiency on tight deadlines.

Data Analyst Intern | Josh Technology Group

- Extracted and cleaned customer transaction data using SQL and performed exploratory data analysis to identify key features for clustering algorithms (K-means, DBSCAN), improving segmentation for customer profiling.
- Developed client-facing **Tableau dashboards and financial reports**, leveraging **Excel and PowerPoint** to enhance report accuracy and clarity, resulting in a **20% improvement** in financial reporting efficiency.
- Collaborated with business stakeholders and cross-functional teams, using **NLP-based** insights to respond to data requests and translating over **30% of data requests into actionable reports**, increasing operational **efficiency by 20%.**
- Maintained and managed RDBMS systems, ensuring data integrity, while supporting the finance team's data needs.

RESEARCH PROJECTS

Survival Analysis for Breast Cancer Prediction Research Under Prof. Zeynep Kacar, UMBC Aug 2024 - Dec 2024

Developing survival models (Kaplan-Meier, Cox PH, Random Survival Forests) for breast cancer prognosis using Python
and MATLAB, improving predictive accuracy by 15% on the METABRIC dataset. Identifying key prognostic factors to
support clinical decisions.

ACADEMIC PROJECTS

Anomaly detection using Robust Graphical Lasso

Oct 2024 - Dec 2024

Designed a framework using Robust Graphical Lasso to handle outliers in high-dimensional datasets by combining RPCA
with sparse covariance estimation. Leveraged ADMM optimization to achieve robust performance, validated on synthetic
and real-world datasets.

End-to-End Machine Learning Workflow with MLflow and AWS CICD

May 2024 - Jun 2024

 Integrated MLflow for experiment tracking and deployed containerized models using Docker and AWS EC2. Automated CI/CD with GitHub Actions, reducing deployment time by 40% and achieving 99.9% uptime.

Real-Time Voting Analysis System

Apr 2024 - May 2024

• Built a scalable, real-time voting system with **Python, Kafka, and Spark Streaming,** capable of processing **500,000+ records/minute**. Deployed a live dashboard with Streamlit, providing insights in under 1-second processing time.