# Rohan Gonjari

(774) 301-6307 | rohan.gonjari@outlook.com | LinkedIn | GitHub | Research Papers

## PROFESSIONAL SUMMARY

Versatile Data Scientist & Machine Learning Engineer with a Master's in Data Science & proven track record of 3 years in professional Data Analytics roles. Specialized in imbalanced classification of Multi-Modal data & hyper-tuning deep neural network models as an MLE. As a Data Analyst, leveraged regression models & tableau dashboards to identify targets to increase sales. Executed projects encompassing end-to-end implementations of ML pipelines, designing database schemas, conducting data analysis & building interactive visualizations. Contributed to research publications on Multimodal Classification using GNNs.

## TECHNICAL SKILLS

- **Technologies** : Python, MATLAB, R, SQL, MySQL, SAS, Java, JavaScript, HTML, CSS, Tableau, PowerBI, CUDA, Docker, Google Analytics, Excel, Linux
- **Libraries** : PyTorch, TensorFlow, Matplotlib, Pandas, Numpy, PySpark, XGBoost, Seaborn, Ggplot, Selenium
- **Cloud** : AWS, SageMaker, S3, Snowflake

## PROFESSIONAL EXPERIENCE

**Machine Learning Engineer/Research Assistant** | UMass Dartmouth | *North Dartmouth, MA*          *Aug 2022 – Aug 2023*
- Performed imbalanced classification of Multi-View data through feature selection, feature elimination, & data sampling.
- Generated graph data for GNNs, Neural Networks, K-means, SVM, & Decision Tree models to implement supervised machine learning.
- Modelled neural networks, manipulating layers & hyperparameters to improve performance for GCNs.
- Performed dimensionality reduction (PCA, t-SNE) to help visualize graph nodes and edges using Seaborn.

**Data Analyst** | Destek Infosolutions | *India*          *Aug 2020 – July 2022*
- Collaborated with 120+ clients to implement GA4 via GTM to meet project requirements with a 95% success rate.
- Initiated a data sourcing project, establishing a robust data pipeline for sourcing new data & cleansing old data, then further process data for feature elimination & selection using NumPy & Panda's libraries.
- Used regression models for targeted customer segmentation, resulting in a substantial 18% sales boost.
- Developed different Tableau dashboards to have more visibility of companies' sales portfolio for different products.

## EDUCATION

**University of Massachusetts Dartmouth** | *North Dartmouth, MA*          *Sept 2021 – Aug 2023*
- Master of Science in Data Science
- *Coursework:* High-Performance Scientific Computing, Advanced Data Mining, Advanced Machine Learning, Data Visualization, Data Design & Modeling, Business Analytics, Graph Neural Networks

**National Institute of Technology Karnataka (NITK)** | *Surathkal, India*          *July 2016 – June 2020*
- Bachelor of Technology in Electronics & Communications Engineering
- *Coursework:* Numerical Analysis, Discrete Mathematical Structures, Data Structures & Algorithms, Statistical Analysis

## PROJECTS

**Multimodality-Enhanced Graph Generation & Multimodality-Driven GCN** | *Master's Thesis*
- Proposed methods for graph generation & neural networks to work with Multi-modal data across various industries.
- The novel GNN implemented in PyTorch can combine information from multiple modalities to improve BCI-Systems.
- Novel neural networks showcased an improvement in performance by 16.25% & 21.65% in two distinct studies.

**Hospital Management System (HMS)**
- Built a data architecture to implement a Health Management System. Then generated tables & attributes using MySQL.
- Utilized Selenium for ETL of medical conditions & prescription data for patients from NHS surveys.
- Transformed prescription string data using NumPy & Pandas to be loaded in our HMS database.

**Evaluating Medical Condition of Patients**
- Diagnosed patient health based on predicted health scores using EDA and modelling.
- Built Regression model with Cross-Validation & Recursive Feature Elimination with significant & engineered features.

**Visualizing Olympics Performance** | *Link*
- Sourced Olympics data between 1960 – 2016 to build dynamic & interactive visualizations using D3.js in JavaScript.