Rohan Gonjari

Boston, MA | (774) 301-6307 | rohan.gonjari@outlook.com | linkedin.com/in/rohangonjari2504 | github.com/rohang2504

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.
- Modeled 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 modeling.
- 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.

PUBLICATIONS

- Kumar, C., Rahimi, N., Gonjari, R., McLinden, J., Hosni, S.I., Shahriari, Y. and Shao, M., 2023, July. Context-aware Multimodal Auditory BCI Classification through Graph Neural Networks. In 2023 45th Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC) (pp. 1-4). IEEE.
- Kumar, C., Donohue, J.P., Gonjari, R., Rahimi, N., McLinden, J., Shahriari, Y. and Shao, M., 2023, April. Adversary on Multimodal BCI-based Classification. In 11th International IEEE EMBS Conference on Neural Engineering.