Rohan **Gonjari**

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EDUCATION

University of Massachusetts Dartmouth, Massachusetts *Sept 2021 – Expected Aug 2023*

- Masters of Science in Data Science *CGPA: 3.96/4.00*
- Coursework: High-Performance Scientific Computing, Advanced Data Mining, Advanced Machine Learning, Data Visualization, Data Design & Systems, Business Analytics, Graph Neural Networks

National Institute of Technology, Surathkal, Karnataka (NITK), India *July 2016 – June 2020*

- Bachelor of Technology in Electronics & Communications Engineering
- Coursework: Numerical Analysis, Discrete Mathematical Structures, Data Structures & Algorithms, Statistical Analysis

WORK EXPERIENCE

Research Assistant | *UMass Dartmouth* | *North Dartmouth, MA* *Aug 2022 – Aug 2023*

- Assisting Dr. Ming (Daniel) Shao from the Department of Computer & Information Science in ML research.
- Data Processing including feature selection, feature elimination, data sampling, for Multi-View data to counter imbalanced classification.
- Generating & manipulating graph data for Graph Convolutional Networks & other baseline models to implement supervised machine learning.
- Modelling neural networks, manipulating layers & hyperparameters to improve performance for GCNs.

Business Analyst | *Destek Infosolutions* | *India* *Oct 2020 – May 2021*

- Collaborated with 80+ clients to walk them through the end-to-end completion of their requested e-commerce project.
- Gathered technical insights from local businesses to help improve their e-commerce websites & projects.
- Led training sessions on the projects/websites developed & presented to clients for approval of deployment.
- Built regression models to identify states with high-value customers based on sales & used Tableau dashboards to highlight business trends.

PROJECTS

Multimodality-Enhanced Graph Generation & Multimodality-Driven GCN | *Master's Thesis* *Aug 2022 – Aug 2023*

- Proposed adaptable & generalized novel methodologies MEGG & MDGCN to work with Multi-View data across various industries.
- Proposed methods showcased an improvement in performance by 16.25% & 21.65% in two distinct studies.
- Proposed methods showcased high immunity & robustness to noisy & corrupted data when injected with Gaussian Noise.

Hospital Management System (HMS) *Sept 2022 – Dec 2022*

- Designed a database to implement an HMS & ensure functional integrity. Then generated tables & attributes using MySQL.
- Developed a user interface to help users navigate through the database using Python & MySQL connector.

Evaluating Medical Condition of Patients *Feb 2022 – April 2022*

- Performed EDA to determine significant features based on correlation & a multiple regression model.
- Built Regression model with Cross-Validation & Recursive Feature Elimination with significant & engineered features.
- Built Random Forest & Gradient Boosted Decision Tree models & determined the best model to predict medical scores based on RMSE.

Visualizing Olympics Performance *Jan 2022 – April 2022*

- Sourced Olympics data between 1960 – 2016 to build dynamic & interactive visualizations using D3 in JavaScript.
- Built a web framework using HTML & CSS with added navigation to other visualizations built by team members.

TECHNICAL SKILLS

- Technologies**:** Python | MATLAB | R-Programming | SQL | MySQL | Java | JavaScript | HTML | CSS | Tableau | MS Excel
- Libraries: PyTorch | PyG | SciKit-Learn | Matplotlib | Pandas | Numpy | XGBoost | Seaborn
- AWS: SageMaker

PUBLICATIONS

- Chetan Kumar, Neela Rahimi, Rohan Gonjari, John McLinden, Sarah Hosni, Yalda Shahriari, and Ming Shao, Context-aware Multimodal Auditory BCI Classification through Graph Neural Networks, the 45th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC'23), pages 1-4, 2023.