Rohan Gonjari

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EDUCATION

University of Massachusetts Dartmouth | *North Dartmouth, MA* *Sept 2021 –Aug 2023*

- Masters of Science in Data Science, *CGPA: 3.97/4.00*
- 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 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

PROFESSIONAL EXPERIENCE

Machine Learning Engineer/Research Assistant | *UMass Dartmouth* **|** *North Dartmouth, MA* *Aug 2022 – Aug 2023*

- Data Processing for imbalanced classification of **Multi-View** data through **feature selection**, **feature elimination**, & **data sampling**.
- Generated & manipulated graph data for **Graph CNNs** & popular ML models to implement **supervised machine learnin**g.
- Modelled **neural networks, manipulating layers** & **hyperparameters** to improve performance for **GCNs**.
- Performed dimensionality reduction **(t-SNE)** to help visualize graph nodes and edges using **Seaborn**.

Data Analyst | *Destek Infosolutions* **|** *India* *Aug 2020 – July 2022*

- Collaborated with **120+ businesses** through the end-to-end completion of **e-commerce** platforms 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 Desteks sales portfolio for different products.

PROJECTS

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

- Proposed adaptable novel methodologies **MEGG & MDGCN** to work with **Multi-View** data across various industries.
- Novel methods showcased an improvement in performance by **16.25% & 21.65%** in two distinct studies.
- Modified models to achieve 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**.
- Built 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 & multiple **Regression** models.
- Built Regression model with **Cross-Validation** & **Recursive Feature Elimination** with significant & engineered features.
- Developed **Random Forest** & **Gradient Boosted Decision Tree** models & determined the best model 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 | SAS | Java | JavaScript | HTML | CSS | Tableau
- **Libraries**: PyTorch | PyG | SciKit-Learn | TensorFlow | Matplotlib | Pandas | Numpy | XGBoost | Seaborn
- **AWS**: SageMaker | S3 | Snowflake

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.