Rohan Gonjari

(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 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.

PROFESSIONAL EXPERIENCE

Machine Learning Researcher | UMass Dartmouth | *North Dartmouth, MA* *Aug 2022 – Aug 2023*

- Utilized GNNs, Neural Networks, K-means clustering, Support Vector Machine, & Decision Tree models to implement supervised machine learning using graph data.
- Performed dimensionality reduction (PCA, t-SNE) to help visualize graph nodes and edges using Seaborn.
- The novel GNN architecture can combine information from multiple modalities (multi-modal) to improve BCI-Systems.
- Novel model showcased a notable improvement in classification by 16.25% & 21.65% in two distinct studies indicating potential impacts on patient care (*Master's Thesis*).

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.
- Implemented A/B testing to ensure accuracy & reliability of data collected in GA4 when updating event triggers.
- Led a data sourcing initiative to establish a robust pipeline, including data sourcing, cleansing, and feature selection using NumPy and Panda's libraries.
- Applied 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 & other KPIs.

PROJECTS

Sentiment Analysis of 2022 FIFA World Cup

- Extracted real-time sentiment data from Twitter's API, categorized FIFA World Cup tweets using VADER sentiment analysis, and deployed a scalable data pipeline on Amazon Airflow & EC2 for processing, storing results on S3.

Hospital Management System (HMS)

- Established MySQL data architecture for Health Management System, performed ETL using Selenium for NHS surveys, and transformed prescription data with NumPy and Pandas for loading into the HMS database.

Evaluating Medical Condition of Patients

- Diagnosed patient health based on predicted health scores using EDA and modeling. Predicted scores using 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, HTML, & CSS.

TECHNICAL SKILLS

- **Technologies** : Python, MATLAB, R, SQL, MySQL, SAS, Java, JavaScript, Tableau, PowerBI, CUDA, Docker, Linux, PowerShell, Google Analytics
- **Libraries** : PyTorch, TensorFlow, Pandas, NumPy, PySpark, XGBoost, NLTK, OpenCV, Ggplot, Selenium
- **Cloud** : AWS, SageMaker, S3, Snowflake, EC2, Airflow
- **Skills** : Statistical Modeling, Market Mix Modeling, Predictive Analytics, ETL Tools, Deep Learning, Data Wrangling, Data Analysis

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

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.