Rohan Gonjari

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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.
- 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 for different products.

PROJECTS

Sentiment Analysis of 2022 FIFA World Cup

- Extracted real-time sentiment data from Twitter using Python and the Twitter API.
- Utilized VADER sentiment analysis for categorizing tweets (positive, negative, neutral) on the 2022 FIFA World Cup.
- Deployed scalable data pipeline on Amazon Airflow & EC2 for processing; stored processed data on S3 for analysis.

Hospital Management System (HMS)

- Established a data architecture for a Health Management System, creating tables and attributes with MySQL.
- Leveraged Selenium for ETL of medical conditions & prescription data for patients from NHS surveys.
- Transformed prescription string 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.
- 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, HTML, & CSS.

TECHNICAL SKILLS

- **Technologies** : Python, MATLAB, R, SQL, MySQL, SAS, Java, JavaScript, Tableau, PowerBI, CUDA, Docker, Linux, PowerShell, Google Analytics
- **Libraries** : PyTorch, TensorFlow, Matplotlib, Pandas, NumPy, PySpark, XGBoost, NLTK, Ggplot, Selenium
- **Cloud** : AWS, SageMaker, S3, Snowflake, EC2, Airflow
- **Skills** : Statistical 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.