

Rohan Gonjari

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EDUCATION

University of Massachusetts Dartmouth, Massachusetts

Sept 2021 - Ongoing

- Masters of Science in Data Science CGPA: 3.95/4.00
- 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 and Communications Engineering
- Coursework: Numerical Analysis, Discrete Mathematical Structures, Data Structures & Algorithms, Statistical Analysis

TECHNICAL SKILLS

Technologies: Python | MATLAB | R-Programming | SQL | Java | JavaScript | HTML | CSS | MySQL | Tableau | MS Excel

Libraries: PyTorch | PyG | SciKit-Learn | Matplotlib | Pandas | Numpy | Tensorflow | XGBoost | Seaborn

AWS: SageMaker | Lambda | Amazon RDS

OS: Windows | Linux

WORK EXPERIENCE

Research Assistant | UMass Dartmouth | North Dartmouth, MA

Aug 2022 – Ongoing

- Assisting Dr. Ming (Daniel) Shao from the Department of Computer & Information Science in Machine Learning research.
- Generated graphs using KNN clustering from ALS data which was then fed to a GCN model along with the features.
- Implemented different strategies for preparing training & testing sets from a highly imbalanced dataset so as to improve accuracy.

Business Analyst | Destek Infosolutions | Pune, 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 and presented them to clients for approval of deployment.
- Performed regression to identify states with high-value customers based on sales & used Tableau dashboards to highlight business trends.

PROJECTS

Evaluating Medical Condition of a Patient

March 2022- April 2022

- Performed EDA to determine significant features based on correlation and a multiple regression model.
- Built Random Forest and Gradient Boosted Decision Tree models and determined the best model to predict medical scores based on RMSE.

Housing Rate Predictor

Feb 2022- April 2022

- Performed EDA on the dataset to identify the most significant features & use said features to perform feature engineering.
- Built a Regression model with Cross-Validation & Recursive Feature Elimination with significant & engineered features.
- Evaluated different regression models based on accuracy & coefficients to identify the best model to predict housing prices.

Evaluating Random Forests in R

March 2022- April 2022

- Implemented Random Forest model with an accuracy of 91.39% and a 2nd Random Forest model with multiple parameters using Grid search & obtained an accuracy of 91.41%.
- Evaluated & compared different RF models based on OOB error & RMSE to identify the best models in different use cases.

Visualizing Olympics Performance

Jan 2022- April 2022

- Processed Olympics data between 1960 – 2016 to generate medal counts for specific groups and built a double-sided D3 bar chart with user interactivity & navigation options using JavaScript.
- Built a web framework using HTML and CSS & added navigation to other visualizations built by team members.

Automobile Insurance DB Management

Oct 2021- Dec 2021

- This project provides a user interface to perform functions on an Automobile Insurance database. Users can perform actions like adding accidents to the database, querying for details of a specific accident, and filtering out accidents using certain search criteria.

YOLO – Object Detection System

July 2019 - June 2020

- Implemented YOLO, using a deep learning framework along with a Darknet Architecture with pre-defined weights.
- Performed in the OpenCV Python module using predefined datasets, after which we trained the model to detect specific objects.

LEADERSHIP POSITIONS

Mentor for Techstars Startup Weekend, UMassD | Committee Member for Indian Student Association, UMassD | Assistant at LLMC, UMassD | Member of Big Data Club, UMassD | Creative committee for NITK Incident' 18 | Member of Flying & Robotics Club, NITK | Built RC plane for Wright Flight' 16 | Participated in MUN sessions in Qatar & NITK, India | Member of Toastmasters International