ENZO RODRIGUEZ

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https://enzodata.github.io

Profile

Data Scientist familiar with gathering, cleaning and organizing data for use by technical and non-technical personnel. Advanced understanding of statistical, algebraic and other analytical techniques. Highly organized, motivated and diligent with significant background in Topology.

Education

Data Science M.S.   08/2018 – 12/2019
University of Albany, Albany, NY, United States

- Excelled in Topological Data Analytics and Advanced Statistics.
- Practicum in Topology.
- Project in Statistical modeling.

Economics B.S.   01/2012 – 12/2017
University of Albany, Albany, NY, United States

- Excelled in Econometrics and Accounting.
- Completed a senior project to find correlations between a countries crime index and level of education, through multivariate regression. Used regression models, and open source datasets.

Work experience

Data Analyst   06/2013 – 01/2016
GG Children's Sportswear LLC, New York, NY, United States

- Used R to analyze data statistically, perform data visualization and presented the reports to the managers.
- Prepared and entered financial data for Operations Performance Management report.
- Increased net revenue by 8 percent by increasing production to meet consumer demand, providing quality customer service, and monitoring sales and labor cost.
- Assisted with employee development by providing training, counseling, performance appraisals, and promoting teamwork.

Assistant Manager   02/2012 – 05/2013
Travel Guest Worldwide Inc, New York, NY, United States

- Manage department metrics report and database and analyzed reports using excel and basic SQL commands.
- Consistently exceeded annual goals in key metrics, such as profit, sales, employee retention, and customer service.
- Test and develop database management plans and organized the data for management to understand sales.

Internship Experience

Econometrics Research Assistant   01/2017 – 12/2017
University of Albany, Albany, NY, United States

- Collaborated with team members to build successful models from pre-existing models and used the ANOVA table to improve the models we were building.
- Showed correlations between a countries crime index and levels of education in multivariate regression.
- Used libraries Dplyr, Ggplot2, Esquisse, Leaps and Lubridate.

Informatics Teacher Assistant   01/2016 – 12/2016
University of Albany, Albany, NY, United States

- Helped students develop business applications using Microsoft Excel and perform basic SQL commands.
- Tutored fellow peers in the fundamental of information technology (IT). Organizational Strategy using IT, Customer Relationship Management, Supply Chain Management, Elements of e-business, information security, and cyber-ethics.

Project Experience

Research Project in Logistic Regression   08/2019 – 12/2019
University of Albany, Albany, NY, United States

  https://github.com/EnzoData/EmployeeAttrition/blob/master/README.md
- We aim to model the probability of attrition using logistic regression.
- This project has been performed in R and Python, utilizing scikit learn and other advanced Machine Learning tools.
- The results thus obtained will be used by management within an organization to understand what changes they should make to their workplace, in order to get most of their employees to stay.

Practicum in Topological Data Analysis   08/2019 – 12/2019
University of Albany, Albany, NY, United States

  https://github.com/EnzoData/TDA_Project1
- Lead programmer collaborating with all team members to build a successful training models to predict letters from the Latin alphabet through the process of persistent homology.
- Used the notebook Lower Star Image Filtrations from ripser.py in python.
- We're identifying 0-Dimensional classes in each letter to classify them through their Euclidean coordinates.

Project in Python using Mapper   08/2019 – 12/2019
University of Albany, Albany, NY, United States

- Using the library Kepler Mapper to implementing the Mapper algorithm in Python for topological data analysis.
- Utilizing the Mapper for visualization of high-dimensional data and 3D point cloud data to understand feature selection in a high dimension.

Kaggle Competition on Recursion Cellular Image Classification   06/2019 – 09/2019
Kaggle, Albany, NY, United States

- Collaborated with team members to build a successful model using neural networks.
- Use of Automated Machine Learning Tools (AMLT). Used Persistent Homology to optimize data classification.
- Load and transform large sets of structured and semi structured images.

Skills

Python
Numpy
Pandas
Scikit-learn
BeauifulSoup
Ripser

R
Ggplot2
Dplyr
Leaps
Esquisse
Lubridate

Data Visualization
Ggplot
MatPlotLib
Seaborn
Tableau

SQL
PostgreSQL

MatLab
Machine Learning