Xavi Reverté Baró

DATA SCIENTIST | ENVIRONMENTAL SCIENTIST

PROFILE

Holistic Data Scientist with an environmental science background and a passion for driving innovation through Machine Learning. I am seeking opportunities to leverage my expertise in data-driven decision-making across diverse domains. Feel free to explore my portfolio for a more comprehensive understanding of my skills and experiences [**XReverté Portfolio (https://xreverte.github.io/)**].

PROFESIONAL EXPERIENCE

DATA SCIENTIST | FUNDACIÓ PRIVADA DRISSA

April 2023 – September 2023

Optimized data preprocessing operations with an automated system for data adequacy and cleaning. Systematically corrected null values, formatting issues, and inconsistencies to **enhance data quality and streamline data utilization**.

Improved project innovation and efficiency by implementing an automated data capture, transformation, and analysis system. Reduced workload and error likelihood, leading to enhanced project outcomes and operational effectiveness.

Implemented time-saving procedures, like automating periodic .txt file generation for website updates, enhancing website maintenance efficiency.

WAREHOUSE OPERATOR | BONPREU

June 2022 – August 2022

Achieved **consistently high work performance** and met job demands in a fast-paced environment, contributing to overall operational effectiveness.

DATA PROCESSOR | EDITORIAL RM

September 2021 – January 2022

Improvement of the publisher's data quality through the adequation and processing of information related to the technical and physical characteristics of the titles.

Leveraged analytical skills to extract **valuable insights**, contributing to company objectives and decision-making processes.

CONTACT INFO

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XReverté Portfolio (xreverte.github.io)

ABOUT ME

"Self-learning as the best tool for personal growth, data science as the best tool for self-teaching"

"In life as in chess: adaptability and anticipation, critical and strategic thinking"

"happiness = ME.query('healthy_mind & healthy_body')"

EDUCATION

Master's in **Data Science** (MDS), University of Girona, 2023
• Thesis (9,8/10): "Influence Factors Analysis on Personal Happiness"

Environmental Sciences Bachelor's degree (BSc), University of Girona 2021
• Honors in Environmental Economics

Several **Coursework** as a Lifelong Learner -See my Portfolio-

PROJECTS

"INFLUENCE FACTORS ANALYSIS ON PERSONAL HAPPINESS: A MACHINE LEARNING APPROACH USING MULTIDIMENSIONAL DATA"

September 2023

Accomplished generalized analysis of personal happiness by using **clustering techniques** to segment the data of a self-designed survey, categorizing individuals according to how they seek happiness.

Unveiled the impact of daily activities on self-reported happiness index through longitudinal data analysis, using assemblages of various models (RF, GB, XGB, SVR).

Assessed the **effectiveness of segmentation** in predicting individual happiness influencers, providing valuable insights into this dynamic aspect of human well-being.

"RE-SOURCE COLLABORATION – AWARENESS OF RURAL DEPOPULATION"

September 2023

Collaborated with the multidisciplinary Re-Source project, focusing on raising awareness about rural depopulation issues and fostering critical thinking to mitigate the problem.

Achieved an appropriate **classification of project work teams** by designing a survey and methodology for segmentation. Employed K-means clustering to categorize respondents and predict participant group assignments based on their centroids.

"'CIFAR-10' IMAGE CLASSIFICATION"

June 2023

Achieved an impressive **accuracy rate of 94.72%** by employing transfer learning with pretrained Convolutional Neural Network models, such as VGG19 and Resnet34, using an ensemble approach.

"AQUATIC COMMUNITY NETWORK STRUCTURE UNDER DISTURBANCE EFFECTS"

July 2021

Contributed to the EcoAqua research group by investigating zooplankton responses to various disturbance types.

Applied Principal Component Analysis to analyze changes in zooplankton composition, identifying three distinct sample groups.

Employed multifactorial ANOVA to evaluate variations in community structure, thereby uncovering **valuable insights** into the zooplankton community of La Pletera wetlands.

SKILLS

Languages: Spanish (native) | Catalan (native) | English (B2)

Technologies: Python | R | SQL | Visual Studio Code | Github

Libraries (Python): numpy, pandas, matplotlib, seaborn, graphviz, sklearn, skmultilearn, scipy, statsmodels, xgboost, prince, itertools, requests, fastai, Google Colab, random, os, torchvision

Data Science: Data Acquisition, Processing, Mining, Cleaning, Transformation, Analysis and visualization | Big Data | ETL | Statistics | Database Administration | Project Management

Machine Learning: Feature engineering and Selection | Linear Regression | Logistic Regression | Clustering | PCA | Decision Tree | Random Forest | Gradient Boosting | Extreme Gradient Boosting | SVM | Convolutional Neural Networks | VGG19, ResNet34, DenseNet121, EfficientNet_b0

Soft Skills: Critical and Strategic Thinking | Process Optimization | Multidisciplinary | Autodidact | Adaptability and Resilience | Independence | Empathy | Teamwork | Problem Solving