## DATA SCIENTIST | ENVIRONMENTAL SCIENTIST

# XAVI
# REVERTÉ BARÓ

## OBJECTIVE

Holistic Data Scientist with an Environmental Science background and a passion for driving innovation through Machine Learning to deliver impactful solutions. Explore my Portfolio for deeper insights.

## CONTACT


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Portfolio [xreverte.github.io]

LinkedIn

GitHub


## EDUCATION

**Data Science Master Degree (MSc)**
University of Girona | Sep 2022 - Sep 2023
Master's thesis shortlisted for honors

**Evironmental Sciences (BSc)**
University of Girona | Sep 2015 - Jun 2021
Honors in Environmental Economics

**Additional Coursework**
Datacamp | Lifelong Learning
Numerous courses as a lifelong learner

## SKILLS

**Technologies**: Python | SQL | R | HTML | CSS | LaTeX | VSCode | GitHub | Excel | Google Sheets

**Frameworks**: NumPy, pandas, scipy, statsmodels, matplotlib, seaborn, scikit-learn, xgboost, TensorFlow, PyTorch, fastai, NLTK, scrapy, selenium

**Data Analytics** | Data Visualization | Statistics | Performance Indicators | Time Series Analysis

**Data Engineering** | Data Architecture | ETL | Databases | Data Management | Data Governance | Data Acquisition | Web Scraping

**Data Science** | Computer Science | AI | Machine Learning | Deep Learn | Data Modeling | Predictive Analytics | Pattern Recognition | Data Mining | NLP | Big Data

**Soft skills**: Project Management | Critical & Strategical Thinking | Process Optimization | Problem Solving | Creativity | Communication | Multidisciplinary | Teamwork | Adaptability | Independence | Lifelong Learning

**Languages**: English (B2) | Spanish & Catalan (Native)

## PROFESSIONAL EXPERIENCE

**Data Science Freelancer** | Re-Source | Barcelona | Sep 2023 - Dec 2023

· Contributed to impactful conferences and critical discussions aimed at combating rural depopulation, fostering community awareness and developing innovative solutions.

· Developed a comprehensive survey and segmentation methodology, enhancing collaboration among project teams and fostering diversity of perspectives analyzing group dynamics.

**Data Scientist** | Fundació Privada Drissa | Girona | Apr 2023 - Oct 2023

· Engineered an automated data preprocessing system, significantly enhancing data quality and streamlining data utilization processes, fostering more accurate and reliable analyses.

· Spearheaded the implementation of an automated data capture, transformation, and analysis framework, boosting project innovation and efficiency by reducing manual workload and error potential.

· Devised and implemented time-saving protocols, like automating the generation of '.txt' files for website updates, enhancing website maintenance and operational efficiency.

**Data Processor** | Editorial RM | Barcelona | Sep 2021 - Feb 2022

· Enhanced data quality at Editorial RM by refining technical and physical attributes of titles, optimizing internal workflows and decision-making processes.

· Applied analytical study to extract actionable insights from processed data, empowering stakeholders with valuable information for strategic decision-making.

## PROJECTS

**'Navigating the Job Market: Automated LinkedIn Skill Analysis'**

· Developed an automated, reproducible, versatile, and fault-tolerant system for scraping LinkedIn to analyze top skills required for desired job positions.

· Conducted comprehensive analysis of sought-after skills, examining their distribution across various dimensions.

*Python | Web Scraping | Natural Language Processing | Clustering*

**'Influence Factors Analysis on Personal Happiness'**

· Employed clustering techniques to segment data from a self-designed survey, categorizing individuals based on their approaches to seeking happiness.

· Utilized ensemble models to analyze longitudinal data, uncovering the impact of daily activities on self-reported happiness indices.

· Revealed surprising connections between actions and emotions, highlighting discrepancies between perceived and actual influences and offering deep insights into human psychology.

*Python | LaTeX | Clustering | RF | Boosting | SVM | Ensemble | End-to-end Project*

**'Computer Vision: Cifar-10 Image Classification'**

· Achieved an accuracy rate of 94.72% by employing transfer learning with pretrained Convolutional Neural Network models (e.g., VGG19, ResNet34) using an ensemble approach.

*Python | Deep Learning | Computer Vision | Convolutional NN | Transfer Learning*

**'Aquatic Community Network Structure Under Disturbance Effects'**

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

· Employed multifactorial ANOVA to evaluate changes in its structure, revealing insights into La Pletera wetlands' zooplankton community.

*RStudio | Statistics | PCA | Multifactorial ANOVA | Environmental Sciences*