

XAVI REVERTÉ BARÓ



CONTACT INFORMATION

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SKILLS

- Python | SQL | R | HTML | CSS
- numpy | pandas | matplotlib | seaborn | graphviz | sklearn | sklearn | scipy | statsmodels | xgboost | prince | itertools | requests | tensorflow | fastai | torchvision | Google Colab | random | os | scrapy | selenium | re | nltk | Word-Cloud
- Acquisition | Processing | Cleaning | Mining | Statistics | Analysis | Visualization | Extract Load Transform | Big Data | SQL & NoSQL Database | Project Management | Web Scraping
- Feature Engineering & Selection | Cross V | P. Optimization | Model Evaluation | Data Augmentation | Time Series Analysis | Ensemble | NLP | Computer V | Transfer L
- Regression | Naive Bayes | DT | RF | Boosting | SVM | PCA | Neural Network | CNN
- Critical and Strategic Thinking | Process Optimization | Problem Solving | Creativity | Communication | Multidisciplinary | Teamwork | Empathy | Adaptability and Resilience | Independence | Autodidact | Lifelong Learning

LANGUAGES

- English | Advanced. B2
- Spanish | Native
- Catalan | Native

OBJECTIVE

Holistic Data Scientist with a background in environmental science and a passion for driving innovation through Machine Learning to deliver impactful solutions. Eager to apply expertise in data-driven decision-making across various domains. Explore my portfolio for a deeper insight into my skills and experiences [<https://xreverte.github.io/>].

EXPERIENCE

DATA SCIENCE FREELANCER

Re-Source. Barcelona | Sep 2023 - Dec 2023

Contributed to Re-Source mission to **combat rural depopulation** facilitating *impactful conferences and fostering critical discussions*. Heightened community awareness and fostered innovative solutions to address the pressing issue.

Developed a comprehensive survey and segmentation methodology to classify project work teams effectively. Implemented a robust segmentation approach to analyze group dynamics, fostering diversity of perspectives and *enhancing collaboration among stakeholders*.

DATA SCIENTIST

Fundació Privada Drissa. Girona | Apr 2023 - Oct 2023

Engineered an automated data preprocessing system, significantly *enhancing data quality* by rectifying null values, formatting discrepancies, and inconsistencies. These optimizations *streamlined data utilization processes*, fostering more accurate and reliable analyses.

Spearheaded the implementation of an automated data capture, transformation, and analysis framework, revolutionizing project workflows. By reducing manual workload and minimizing error potential, this initiative markedly *boosted project innovation and operational efficiency*.

Devised and implemented time-saving protocols, such as automating the generation of periodic .txt files for website updates, *enhancing website maintenance* and contributing to overall operational efficiency.

DATA PROCESSOR

Editorial RM. Barcelona | Sep 2021 - Feb 2022

Enhanced data quality at Editorial RM by meticulously refining information pertaining to the technical and physical attributes of titles. Through **adequation and data processing**, ensured accuracy and completeness, thereby *optimizing internal workflows and decision-making processes*.

Applied analytical acumen to *extract actionable insights* from processed data, empowering stakeholders with valuable information for strategic decision-making and achieving company objectives.

EDUCATION

DATA SCIENCE MASTER DEGREE (MDS)

University of Girona. Girona | Sep 2022 - Sep 2023

End-to-end master's final project chosen as a candidate for honors: "Influence Factors Analysis on Personal Happiness: a ML Approach Using Multidimensional Data"

ENVIRONMENTAL SCIENCES BACHELOR'S DEGREE (BSC)

University of Girona. Girona | Sep 2015 - Jun 2021

Honors in Environmental Economics

ADDITIONAL COURSEWORK

Datacamp. Online | Lifelong Learning

Many courses during my journey as a lifelong learner. See them all in my online portfolio.

PROJECTS

"Navigating the Job Market: Automated LinkedIn Skill Analysis" | May 2024

Developed an *automated, reproducible, versatile, and fault-tolerant* system for **scraping LinkedIn to analyze the top skills** required for desired job positions. This system performs a **comprehensive analysis** of the most sought-after skills, *studying their distribution across various dimensions*.

Python | Web Scraping | Natural Language Processing | Clustering

"Influence Factors Analysis on Personal Happiness: a Machine Learning Approach Using Multidimensional Data" | September 2023

Employed **clustering techniques** to segment data from a self-designed survey, *categorizing individuals based on their approaches to seeking happiness*. Through *ensemble models analyzing longitudinal data*, I **unveiled the impact of daily activities** on self-reported happiness indices. Revealed surprising *connections between actions and emotions*, highlighting *discrepancies between perceived and actual influences*, offering deep **insights into human psychology**.

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

"Computer Vision: 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.

Python | Deep Learn | Computer Vision | Convolutional Neural Networks | Transfer Learning

"Aquatic Community Network Structure Under Disturbance Effects" | July 2021

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