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mathematician & data scientist

PROFESSIONAL EXPERIENCE

Data Scientist

Feb 2023 - Present

Action Against Hunger

- Led the establishment of the Data Analysis Unit, a new function that improved data-driven decision making across the organization, managing a team of 2 junior data analysts.
- Leveraged machine learning and deep learning techniques (e.g., document classification, sentiment analysis) to extract insights from various data sources.
- Identified key success factors for programs using machine learning models, leading to a 5% improvement in program effectiveness (job placing of participants).
- Performed cluster analysis of Spanish municipalities using sociodemographic, economic, and climate data to identify areas of high vulnerability, informing resource allocation.

Data Analyst

Feb 2022 - Feb 2023

Action Against Hunger

- Improved data quality and efficiency by developing Python-based automation for data-related tasks (report generation, data cleaning, OCR). This resulted in faster report generation and reduced cleaning errors, leading to more reliable data.
- Developed a publicly available [Python library](#) to automate data retrieval and management from KoboToolbox servers via their API, streamlining data collection and improving data quality.
- Enhanced stakeholder communication through data visualization using Power BI and Jupyter Notebooks, ensuring clear understanding of key performance indicators (KPIs).
- Leveraged data analysis techniques like clustering analysis to profile program stakeholders and logistic regression to model participant success rates. These insights informed program development and effort allocation.

Data Scientist

Sep 2021 - Feb 2022

BIP Spain

- Developed a Power BI dashboard to monitor Point-of-Sale (POS) maintenance activities for a major Italian payments company (Nexi). This enabled proactive identification of failing POS systems and optimized replacement schedules, potentially leading to cost savings and improved customer service.

Data Science Intern

Feb 2021 - Jul 2021

Action Against Hunger

- Develop and automate ETL pipelines from diverse data sources to facilitate global country analysis. Utilize R programming, web scraping techniques, JSON APIs, and R libraries to efficiently gather, clean, and integrate data for comprehensive insights.
- Conducted climate tracking analyses using R and GIS, informing strategic decision-making.

EDUCATION

Degree in Mathematics

2014 - 2020

Complutense University of Madrid

Specialization: Pure and Applied Mathematics. Advanced knowledge in Algebra, Topology, Geometry, Calculus, Statistics.

LANGUAGES

Spanish (native)
Italian (native)
English (working proficiency)
German (basic)
Arabic (basic)

SKILLS

Programming Languages: Python (pandas, sklearn, transformers, seaborn, pyplot, etc.), R.
Data Visualization: Power BI, Jupyter Notebooks.
Databases: SQL.
Tools: Git.