

Sandra Gomez Castro

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SUMMARY

- 2+ years of experience as a Data Analyst with a proven track record in data analysis, machine learning, and predictive modeling, focusing on sustainability, business optimization, and health prediction projects.
- Collaborated with internal teams and stakeholders to research and implement competitive technology solutions, enhancing market differentiation and customer value through over 7 projects with ad hoc reporting.
- Supported digital transformation initiatives by applying technical knowledge and established processes, including data science techniques to analyze market trends and customer needs, contributing to successful project outcomes.
- Possess a multinational background with experience in Denmark, the USA, and Spain, and demonstrated proficiency in Python, PowerBI, R, and Microsoft Power Apps.

SKILLS

Python | R | HTML | SQL | SAS | PowerBI (DAX) | Descriptive & Predictive Statistics | Microsoft Office (Excel) | AI and Machine Learning algorithms | Power Apps | Team Collaboration | Presentation Skills | Proactive | Self-motivated | Strategic thinker

PROFESSIONAL EXPERIENCE

Alfa Laval

Student Data Scientist

Copenhagen, Denmark

Jul 2023 - Present

Alfa Laval is a world-leading supplier of industrial machinery, operating in more than 100 countries with over 10,000 employees. I work in both the Sustainability and Marketing & Product Management department:

- Reported, analyzed, and optimized the business unit's CO₂ levels using Excel, Python, and PowerBI tools.
- Delivered presentations and reports to senior management and stakeholders, effectively communicating complex findings to non-technical audiences.
- Analyzed employee participation in sustainability courses with PowerBI, leading to a 25% increase in engagement.
- Developed customer tools in Microsoft Power Apps to calculate sustainability measures.
- Conducted a feasibility study and contributed to implementing a Large Language Model (LLM) for internal use.

Nabiix

Data Analyst Internship

Madrid, Spain

Jul 2022 - Dec 2022

Nabiix is a data center company specializing in colocation and hosting services, capturing over 40% of the colocation market for cloud nodes in Spain. Responsibilities included:

- Created dashboards and predictive analytics for data center room, humidity, and temperature measures using temporally sensitive and unstructured datasets.
- Assisted in the implementation of a UAC (User Assistance Center) to improve internal procedures.
- Worked on the implementation of tools to optimize the company's performance and automate the detection of rack failures in data center rooms.

HPE - Hewlett-Packard Enterprise

Data Scientist on Project about Dengue Prediction

Madrid, Spain

Sept 2022 - Jan 2023

Developed a Python algorithm to predict future Dengue outbreaks worldwide in collaboration with Hewlett Packard Enterprise. Achievements included:

- Presented a highly accurate study for the prediction of Dengue cases in South America using Time Series (SARIMA and ARIMA), Machine Learning techniques (SVR, Stacked Models), and LSTM neural networks.
- Exhibited results at a conference, representing the entire team to an audience of 100+ attendees.

Kennesaw State University - (CCSE) College of Computing and Software

Intern VRA - Research Assistant

Georgia, USA

Aug 2021 - Jan 2022

Member of a team of three developing an auto-grader program using Natural Language Processing technology and Python code. Key responsibilities included:

- Management of the data lifecycle and conducted data mining for over 1,000 handwritten essay images.

EDUCATION

Technical University of Denmark - DTU

Copenhagen, Denmark

MSc Eng. in Human-Centred Artificial Intelligence

Aug 2023 - Present

- **Relevant Coursework:** Social graphs and interactions, Biometric systems, and Personal Data Interactions for Mobile and Wearables.

Universidad Carlos III de Madrid

Madrid, Spain

BSc in Data Science and Engineering

Sept 2019 - Jun 2023

- Final project on categorization of sensitive data elements based on user perception with a grade of 9.7/10
- Entirely taught in English with a GPA of 7.8/10
- **Relevant Coursework:** Data protection & cybersecurity, Statistical Signal Processing, Data Base (SQL and NoSQL: MongoDB), Statistical Learning in R, Web Applications.

Kennesaw State University

Georgia, USA

Computer Science and Information Technology Academic Year

Sept 2019 - Jun 2023

Academic year in Georgia, USA with Non-European Mobility Grant and GPA of 3.8/4.

- **Relevant Coursework:** Web Development, Parallel, Computing, Neural Networks, Mobile Game Development.

CERTIFICATES, COURSES AND PUBLICATIONS

[The Forest of Ideas](#) | [El Bosque de las Ideas](#)

Publication of two children's books created with the help of artificial intelligence tools.

EdX

Professional Certificate on PowerBI for Business

Udemy

Course on GDPR Certification & Preparation to CIPP

CITI Program

Course on Social, Behavioral, and Educational Research with Human Subjects

FMV (Federación Madrileña de Voleibol)

Level I Certification Volleyball Coach

The Scientific Student

Publication of scientific-related articles

LANGUAGES

Spanish: Native | English: Bilingual (IELTS - C2) | Portuguese: Basic Competences | German: Basic Competences (Goethe Institut - A2) | Mandarin: Basic Competences (HSK2 - A2)