



Alejandro Navas González

DATA SCIENTIST

Madrid, Spain

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Portfolio: tessomica.com

Profile

Data Scientist with experience across healthcare, financial services, insurance and scientific research. Develop analytical solutions in R, Python and SQL, combining statistical modelling, machine learning and workflow automation. Work across data integration, quality assessment, predictive modelling and reproducible reporting, translating business and research questions into practical analyses and tools for decision-making.

Professional Experience

Telómera

Madrid, Spain

DATA SCIENTIST & BIOINFORMATICIAN

Oct 2024 - Present

- Develop reproducible analytical pipelines in R, Python and SQL for biomedical research and real-world evidence (RWE), transforming real-world data (RWD) from routine clinical practice into analysis-ready datasets.
- Define study cohorts and derive clinical and treatment variables. Integrate data sources, implement data cleaning and transformation workflows, and perform data quality checks and validation to support consistent statistical analysis.
- Contribute to exploratory data analysis, interpretation of clinical findings and reproducible reporting, documenting data preparation and analytical methods for research projects.

Intrum

Madrid, Spain

DATA SCIENTIST

Apr 2022 - Oct 2024

- Developed predictive models and automated analytical workflows for debt collection and recovery operations, using R, Python and SQL for data preparation, statistical analysis and machine learning.
- Analysed call centre performance, agent operations and written communication strategies to support operational optimisation. Translated business questions into analytical tasks and communicated findings through data visualisation and reporting.

CGI Group Inc. | Banco Santander

Madrid, Spain

DATA SCIENTIST

Sep 2021 - Apr 2022

- Worked in a cross-functional data lake support team for Banco Santander, processing large-scale banking datasets with Apache HIVE, PySpark and Python in a Big Data environment.
- Developed data cleaning, transformation and preprocessing workflows for downstream analytics and modelling. Supported data infrastructure, data accessibility and query optimisation, using pandas and NumPy for data analysis.

M2C Consulting | Mutua Madrileña

Madrid, Spain

SYSTEMS ARCHITECT & DATA ANALYST

Mar 2021 - Sep 2021

- Designed and optimised insurance applications and claims management workflows for Mutua Madrileña using Pegasystems (Pega), applying business process management and workflow automation.
- Translated business requirements into application functionality, data workflows and automated reporting. Contributed across application design, implementation and analysis to support insurance operations.

HelixBioS

Madrid, Spain

BIOINFORMATICIAN

Jan 2020 - Jul 2020

- Analysed rhizosphere microbiome datasets from 16S rRNA studies using R and Python. Developed ecological network and regression models to investigate relationships within microbial communities.
- Used phyloseq, igraph, vegan and tidyverse for bioinformatics analysis and data visualisation. Produced reproducible R Markdown reports documenting computational methods, statistical results and biological interpretation.

Education

Universidad Complutense de Madrid

Madrid, Spain

MASTER'S IN BIG DATA & BUSINESS ANALYTICS

2021 - 2022

- Postgraduate training in statistical analysis, R and Python programming, and Big Data processing with Hadoop and Spark. Focus on applying data science and business analytics to business decisions. Average grade: 9.15/10.

Universitat Oberta de Catalunya / Universitat de Barcelona

Online, Spain

MASTER'S IN BIOINFORMATICS & BIOSTATISTICS

2019 - 2020

- Joint university master's programme combining computational genomics, omics data analysis and bioinformatics programming with statistical inference and regression modelling. Focused on analysing and interpreting biological and biomedical data. Average grade: 8.32/10.

Universidad Politécnica de Madrid

Madrid, Spain

BACHELOR'S IN BIOTECHNOLOGY

2015 - 2019

- Degree combining molecular biology, biochemistry, genetics and microbiology with engineering fundamentals. Training in genetic engineering, experimental design and quantitative analysis for biotechnology applications and the study of biological systems. Average grade: 8.03/10.

Technical Skills

Programming & data processing. R, Python and SQL; data manipulation, transformation and validation with tidyverse, data.table, pandas and NumPy.

Clinical research & RWE. Real-world data, cohort definition, clinical and treatment variables, data quality assessment and preparation of analytical datasets for biomedical research.

Statistics & machine learning. Exploratory data analysis (EDA), statistical inference, regression, predictive modelling and model evaluation; scikit-learn, caret and SciPy.

Bioinformatics. Microbiome and 16S rRNA analysis, ecological networks and differential gene expression; phyloseq, vegan, igraph and DESeq2.

Data infrastructure & automation. Data lakes, data integration, query optimisation and automated workflows; Apache Hive, PySpark and MySQL.

Scientific software & communication. R package development, Shiny applications and interactive data visualisation; ggplot2, Power BI and Tableau; reproducible reporting with R Markdown and Quarto.

Languages

Spanish Native

English C1-C2
Cambridge Advanced

German B1
Goethe-Zertifikat

Japanese N5
JLPT

Certifications & Learning

DataCamp

Data science, statistics, business analytics and bioinformatics through courses and structured learning tracks.

Credentials on LinkedIn [↗](#)

Coursera

Courses, specialisations and applied projects spanning data science, artificial intelligence, life sciences and environmental sustainability.

Explore learning profile [↗](#)

Kaggle

Machine learning competitions, published datasets and analytical code; practical learning through modelling and experimentation in R and Python.

Explore projects & activity [↗](#)

LinkedIn Full certification history and professional credentials.