

LEARN DATA SCIENCE
WITH DATOS.GOB.ES:
ANALYTICS,
VISUALISATIONS AND
MORE

Discover the power of open data through hands-on exercises designed for all levels of training. From analyzing national trends to building your first topic-expert chatbot.

WHO IS IT FOR

TARGET PROFILES



STUDENTS
Complement your training with real cases



PROFESSIONALS
Update your data science skills



ADMINISTRATION
Learn how to exploit public data



ENTREPRENEURS
Discover opportunities in open data

DATA SCIENCE LEARNING PATHS

Degree of complexity of the exercise

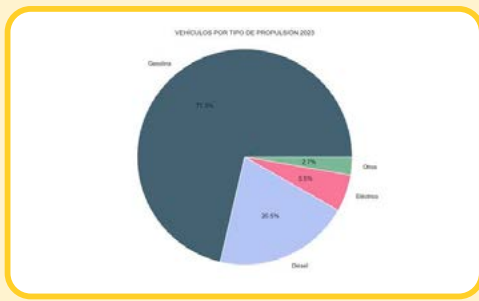
Very easy

Easy

Intermediate

Difficult

DATA ANALYSIS
Get closer to strategic sectors



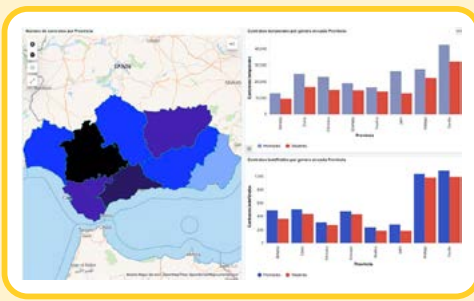
Decipher the use and evolution of the electric

Very easy



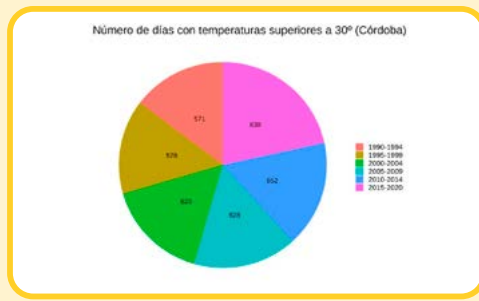
Understand how tourism fluctuates throughout the national

Easy



Research the evolution of employment until 2020

Easy



Extract information from weather

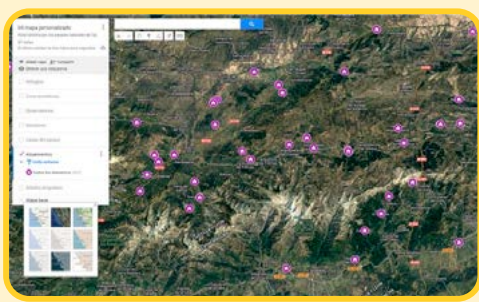
Difficult

DATA VISUALIZATION
From Data to Visual Stories



Learn about the evolution of national

Easy



Map the tourist services of Castilla y León

Easy



Illustrates data on demand for university

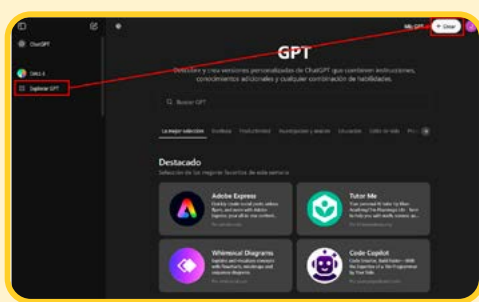
Easy



Graph BICIMAD

Difficult

INGENIERÍA DE IA
Construye aplicaciones inteligentes



Use GPT to train a specialized chat with open data

Easy



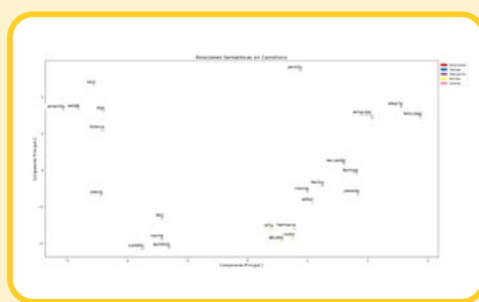
Create your first AI chatbot with public

Easy



Develop a RAG-based

Difficult



Master word embeddings and label

Difficult

STEP-BY-STEP METHODOLOGY

LEARN BY PRACTICING WITH:

- ✓ **REAL DATA** from the National Open Data Catalog datos.gob.es
- ✓ **GUIDED ANALYSIS** with detailed explanations
- ✓ **REPRODUCIBLE CODE**, using complete and documented scripts
- ✓ **TANGIBLE RESULTS** as visualizations and functional applications
- ✓ **NEW TRENDS** through a variety of exercises

EACH EXERCISE IS COMPOSED OF

1

datos.gob.es

EXPLANATORY POST

Publication that introduces the topic and focus of the exercise

2

READ ME

Explanatory document of the exercise

3

colab

NOTEBOOK

Script with executable code explained step by step

Start exploring the potential of open data **TODAY!**

