DATA PROJECT 1

DATA JOBS AROUND EUROPE

IRONHACK DATA PT MADRID

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But... how well distributed are these jobs in Europe?



Data Sources

```
Tables(.db)
API
Web Scraping
```

First approach...

How it started

How it's going





Py... Charming?



Data Sources

Methodology

Tables(.db)
API
Web Scraping

Export
Clean
Merge
Analyze

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Stack

Python
sqlalchemy
Pandas
Numpy
Requests
Matplotlib
Argparse

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Methodology

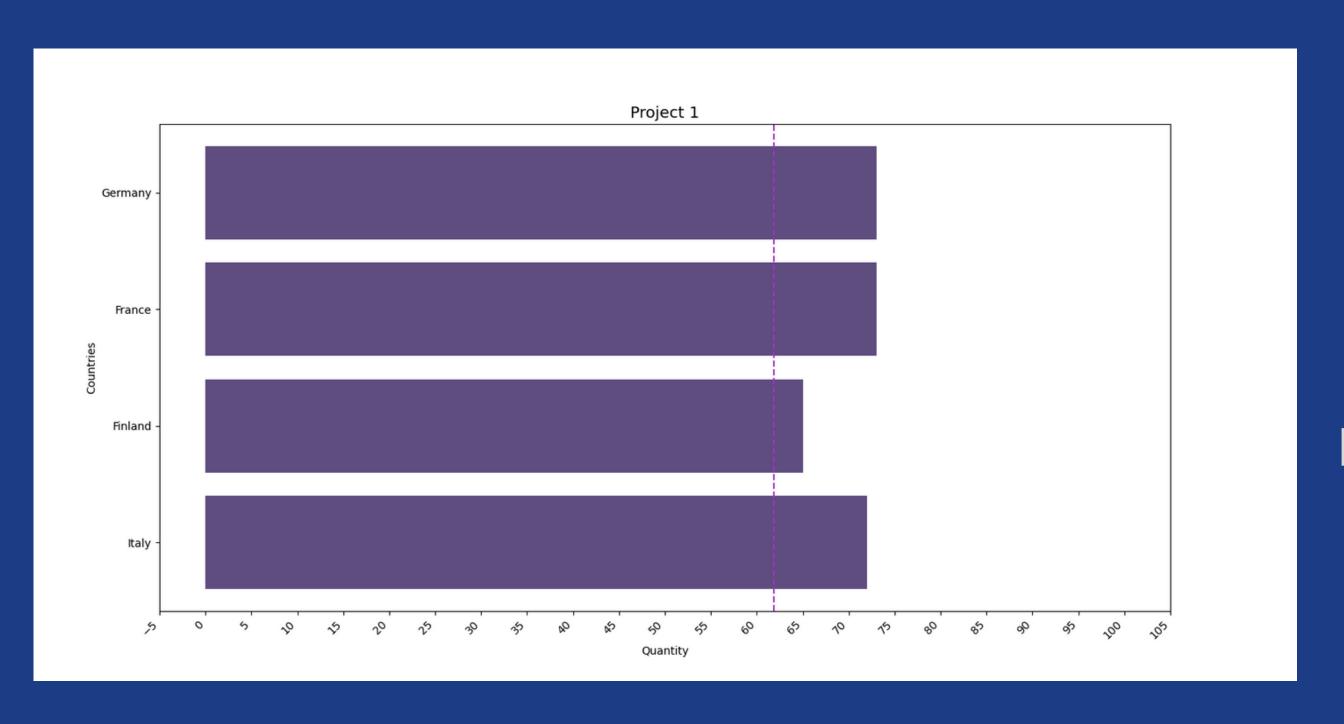
Export
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Goal

Analyze the distribution of data-related jobs across Europe.



Those countries have a high volume of data experts...

Dare to look for another country where you can excel!

A sample of the code used in the project

```
⊕ 🗵 🕏 🗢 — 🐉 main.py × 🐉 m_acquisition.py × 🐉 m_wrangling.py × 🐉 m_analysis.py ×
                                                                                                           n_reporting.py
■ Project ▼
                                            import argparse

→ ih_datamadpt1120_project_m1 ~/Bol 1
                                            from p_acquisition import m_acquisition as acq
 🗦 🖿 data
                                           from p_wrangling import m_wrangling as wra
  > notebooks
                                            from p_analysis import m_analysis as ana

→ D acquisition

                                           ≙from p_reporting import m_reporting as rep
      __init__.py
      m acquisition.py

✓ □ p analysis

                                            def argument_parser():
      👸 __init__.py
      🐉 m_analysis.py
  p_reporting
      🎁 init .py
                                                parser = argparse.ArgumentParser(description='getting data from a survey')
      m_reporting.py
                                                parser.add_argument("-p", "--path", help="specify path", type=str, required=True)
  p_wrangling
                                                parser.add_argument("-c", "--country", help="choose a specific EU country", default="all countries", type=str)
      🖧 __init__.py
                                                args = parser.parse_args()
      🐔 m_wrangling.py
                                                return args

✓ ■ results

   > ipynb checkpoints
      all countries data.csv
                                           def main(arguments):
      Project 1.png
                                                data_table = acq.sql_connection(arguments.path)
 > trash
                                                add_jobs = acq.get_jobs_api(data_table)
    aitignore.
                                                rename_col = wra.clean_rural(add_jobs)
                                                add_countries = acq.get_country_data(rename_col)
    main.py
                                                results = ana.adding_columns(add_countries)
    # README.md
    requirements.txt
> III External Libraries
  Scratches and Consoles
                                                rep.export_table(results, arguments.country)
                                                fig = rep.visual_matplotlib(results)
                                                rep.save_chart(fig, title)
                                                print('You may find your results in the folder ./results ')
                                                print('Starting Project 1...')
                                                title = 'Project 1'
                                                my_arguments = argument_parser()
                                                main(my_arguments)
                                                print('Project 1 complete')
```

print('Thank you!')