



Data scientists in Italy

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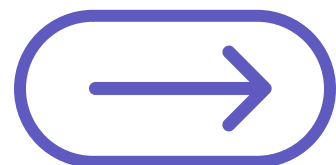
Federico Ferretti 897902

Alice Parodi 898014





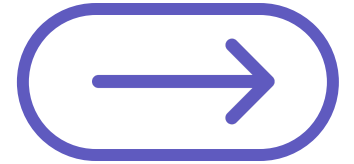
Introduction



Usually we look only for the work position and the relative company **without** thinking about the **geographical position** of the new employment. Even if we usually don't think about it, it has a **great influence** on our general satisfaction.

Investing in employee happiness means investing in the company

"Quality of Life is an individual's perception of their position in life in the context of the culture and value systems in which they live and in relation to their goals, expectations, standards and concerns" - WHO



Question(s) of research

Among the top firms across Italy, where a new employee should work according to the quality of life of that cities?

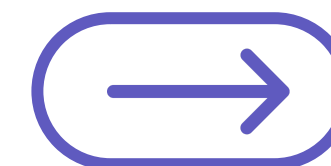
But also...

- Are the job offers homogeneously distributed between the south and the north of Italy?
- Rome and Milan are the springboards for a new data scientist, let's make a comparison between the two cities. Where is it better to move to taking into account the indices? Which are the best indices for Milan? And which for Rome? What about the top firms?

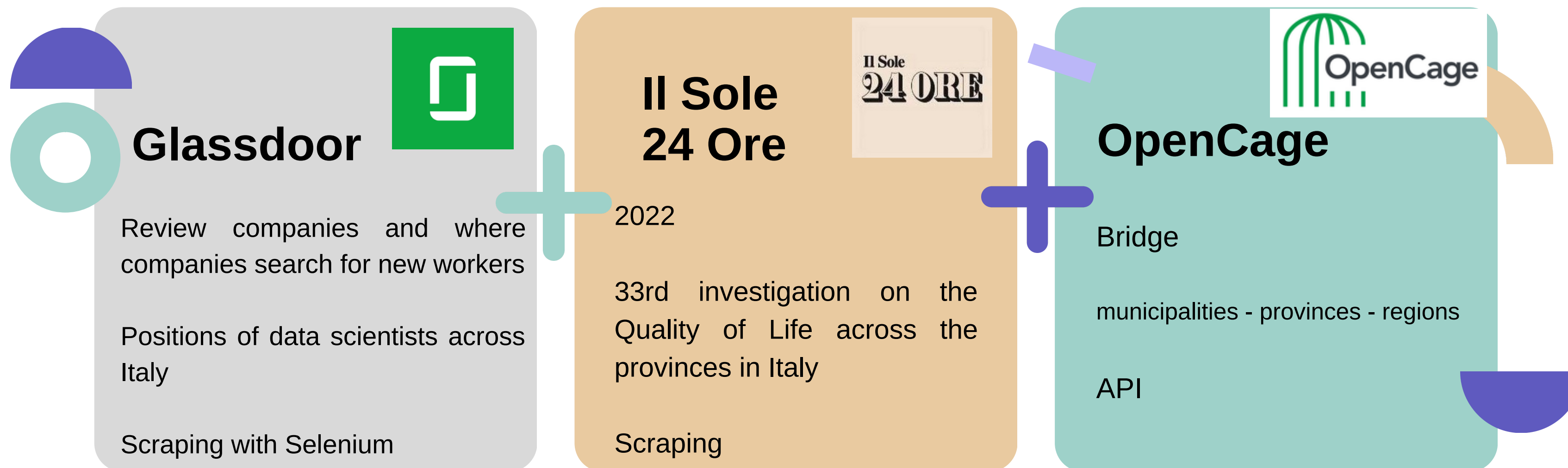


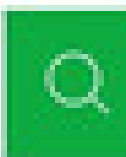


Sources



Three sources of information





Job Types

Posted Any Time

€14K-€47K

25 Miles

More

Create Job Alert

Most Relevant

314 data scientist Jobs in Italy

Expandi Group
Data Engineer (hybrid-remote)

Italy

Easy Apply

Save

Expandi Group

Data Engineer (hybrid-remote)

ly

Easy Apply

Conoscenza e/o posses

(P, Azure). Conoscen

UNIPOL GRU

Data Scientist

Wogna

ipolSai Assicurazioni

ipol, leader in Italia n

.....

S3K SECURITY OF THE THIRD MILLENNIUM S.P.A. 3.8 ★

Junior Research Data Scientist (Roma)

yma

Report



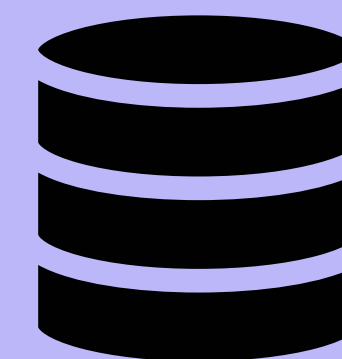
LIBRARIES



SCRAPE EACH
PAGE OF JOB
OFFERS



SCRAPE JOB
OFFERS
FOR MORE INFO



DATABASE
CREATION

Show More

Le classifiche 2022

Le classifiche complete, in forma tabellare, degli indicatori che compongono l'indagine della Qualità della vita dal 1990 al 2022. Con il menu in alto a sinistra potete selezionare gli indici e con il menu a tendina di fianco al titolo scegliere l'anno da consultare. Oltre alla classifica finale (in nero), è possibile consultare le sei classifiche di settore. A seguire, per ciascuna categoria, è possibile "esplorare" i piazzamenti conseguiti nei diversi indicatori che la compongono (15 parametri per categoria nel 2022)

Classifica finale



LIBRARIES



SCRAPE 6 INDICATORS

Cultura e tempo libero, Ambiente e servizi,
Demografia e società, Giustizia e sicurezza,
Affari e lavoro, Ricchezza e consumi



**DATABASE
CREATION**

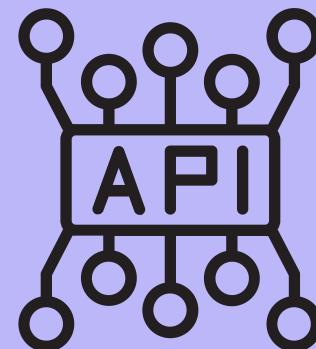
mean for each city

4		+11▲	Siena	578,52		
5		-2▼	Trento	576,62		
6		-2▼	Anzia	575,38		

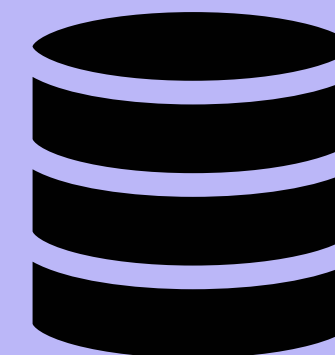
OpenCage Geocoding API Documentation



**EXTRACT
CITIES FROM
GLASSDOOR**



FUNCTION GET TO REQUIRE DATA
**create three lists: municipalities, provinces
and regions**



**DATABASE
CREATION**

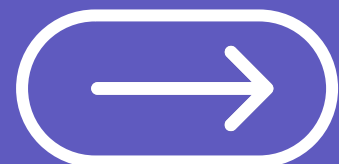
The OpenCage Geocoding API provides worldwide, reverse (latitude/longitude to text) and forward (text to latitude/longitude) geocoding based on open data via a REST API.



Data cleaning



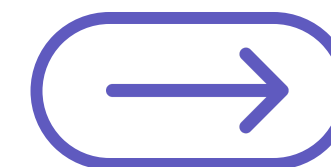
	firm_Score		Firm	n	ad_Firm_Role	Job_Location
0		Expandi Group	KEY NOT FOUND: ctas.save	Data Engineer (hybrid-remote)	Italy	Easy Apply
1		INSIGHTUP SRL	KEY NOT FOUND: ctas.save	Data Engineer	Porto San Giorgio	€32K - €38K
2	3.3		Teamsystem	KEY NOT FOUND: ctas.save	Data Scientist - Milano/Torino/Pesaro/Campobasso	Italy
3	1.4		VJ Technology Srl	KEY NOT FOUND: ctas.save	DATA SCIENTIST	Telelavoro
4		EXAK Srl	KEY NOT FOUND: ctas.save	PHP web developer	Italy	€25K - €40K
...
295	4.1		GSK	KEY NOT FOUND: ctas.save	Clinical Science Lead (CSL) - Respiratory Vacc...	Italy
296	3.7		Alti Profili	KEY NOT FOUND: ctas.save	DATA SCIENTIST	Roma
297	3.9		ManpowerGroup	KEY NOT FOUND: ctas.save	Internship Industry 4.0 and Software Engineer	Zola Predosa
298	3.8		Istituto Italiano di Tecnologia	KEY NOT FOUND: ctas.save	Postdoc on Robot learning and control	Genoa
299	3.8		Istituto Italiano di Tecnologia	KEY NOT FOUND: ctas.save	Postdoc on Perception and Situational Awarenes...	Genoa



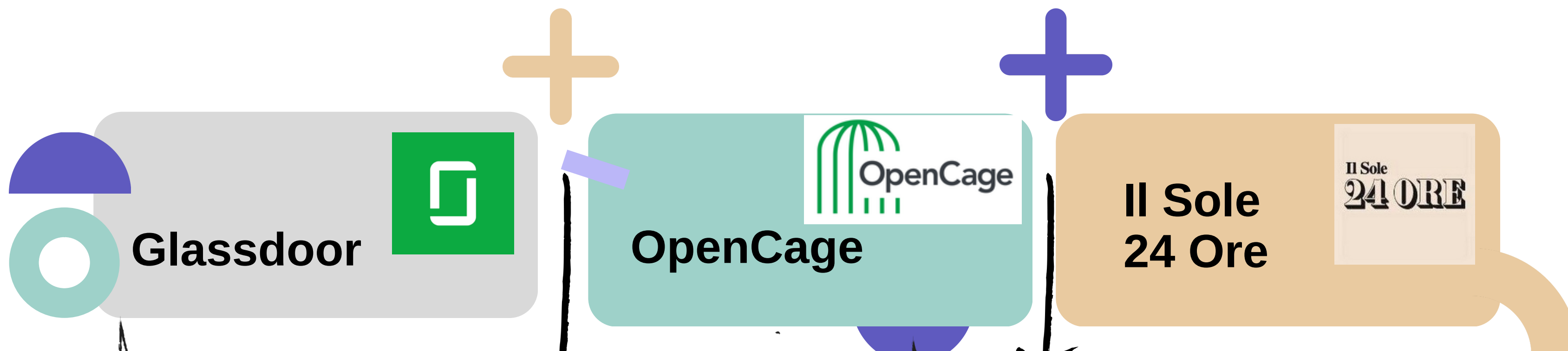
FIRM SCORE



KEY NOT
FOUND



Data enrichment



Ad	Job_Location
....	Rome
....	Bari
....	Milan
...	Turin
....	Alghero



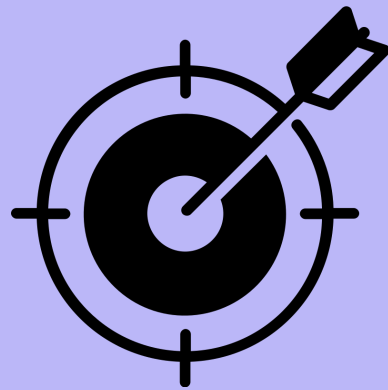
Città	Provincia
Roma
Bari
Milano
Torino
Alghero

Ad	Job_Location	Provincia
....	Monselice	Padova
....	Rozzano	Milano
....	Castellanza	Milano
...	Moncalieri	Torino
....	Castel Maggiore	Bologna

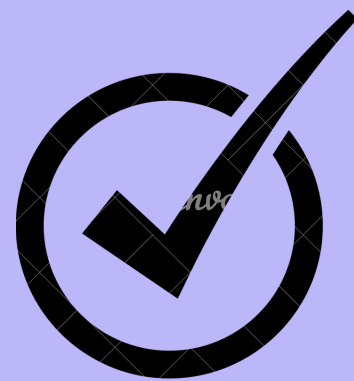


Provincia	Index
Padova
Milano
Milano
Torino
Bologna

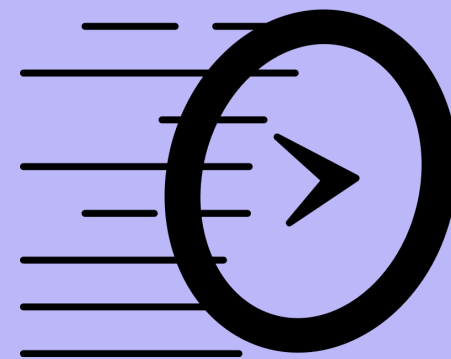
Data quality



ACCURACY
english-italian



COMPLETENESS
Remote job
No firm score
object - websites



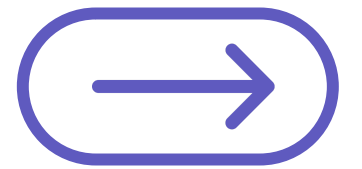
CURRENCY
2022 ≠ 2023



CONSISTENCY
Is it truly Milan?



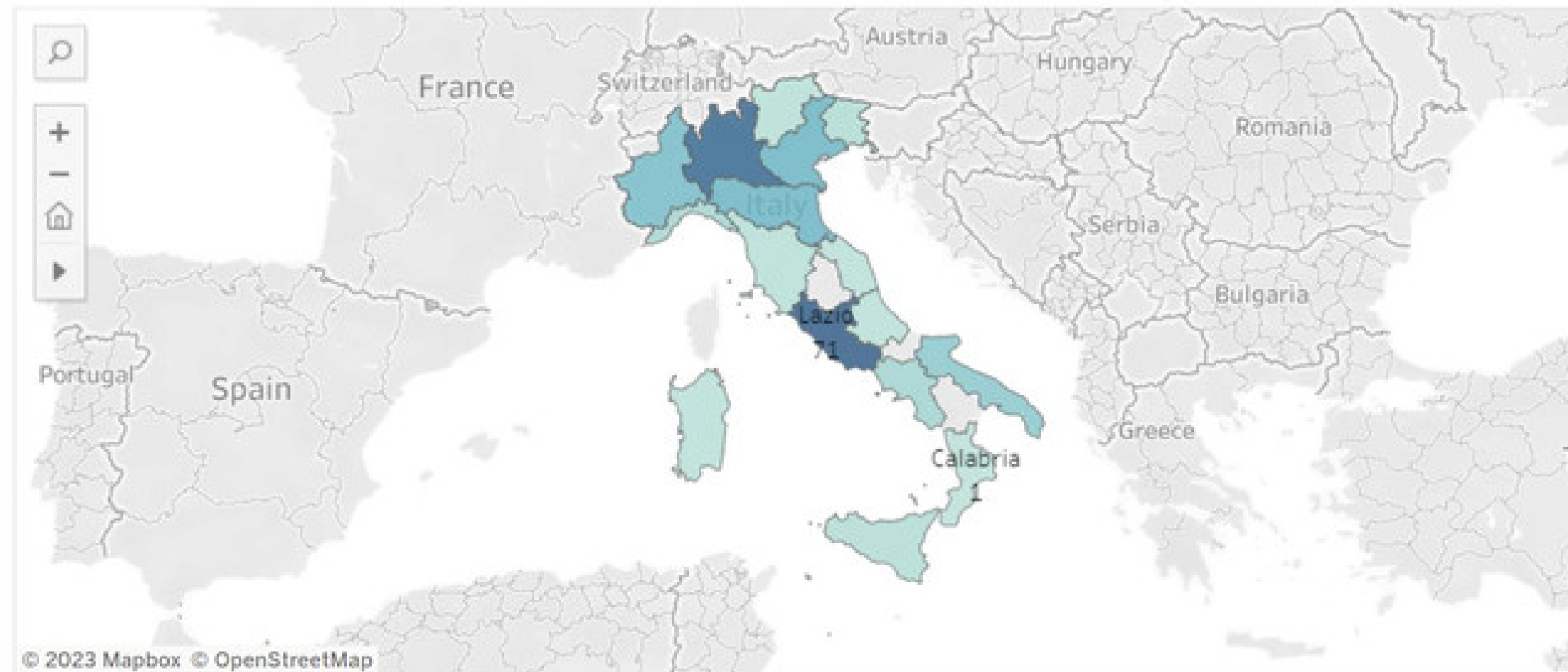
[illegible]



Are the job offers homogeneously distributed between the south and the north of Italy?



<AD JOB per Region>

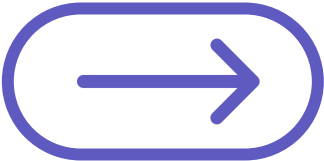


Count of Job Location
1 71

Numero di lavori al Nord Italia: 139
Numero di lavori al Centro Italia: 105
Numero di lavori al Sud Italia: 34
Numero di lavori in Smartworking: 36



Rome and Milan are the springboards for a new data scientist, let's make a comparison between the two cities. Where is it better to move to taking into account the indices? Which are the best indices for Milan? And which for Rome? What about the top firms?



firm_Score	Firm	ad_Firm_Role	Job_Location	Provincia	Regione	Cultura_e_tempolibero	Affari_e_lavoro	Ricchezza_e_consumi
5.0	Open Search Network Ltd	Data Scientist	Rome	Roma	Lazio	421.1	566.4	597.5
5.0	Open Search Network Ltd	Senior It Architect	Roma	Roma	Lazio	421.1	566.4	597.5
4.8	Dils	Data Engineer Senior	Milano	Milano	Lombardy	491.9	632.1	674.3
4.6	Prima Assicurazioni	Senior Data Scientist	Milan	Milano	Lombardy	491.9	632.1	674.3
4.6	Sorgenia S.p.A	Data Scientist – Digital Market	Rome	Roma	Lazio	421.1	566.4	597.5

Giustizia_e_sicurezza	Demografia_e_società	Ambiente_e_servizi	Average_punt
532.3	653.7	458.858	538.310
532.3	653.7	458.858	538.310
549.2	620.4	475.642	573.924
549.2	620.4	475.642	573.924
532.3	653.7	458.858	538.310



Conclusions and further developments

Editorial team of "Il Sole 24 Ore" for a possible service for readers

Rank also for salary

Extend to:

- **other jobs**
 - **other countries**
 - **other websites, but same data structure**
- 

Thank
you

