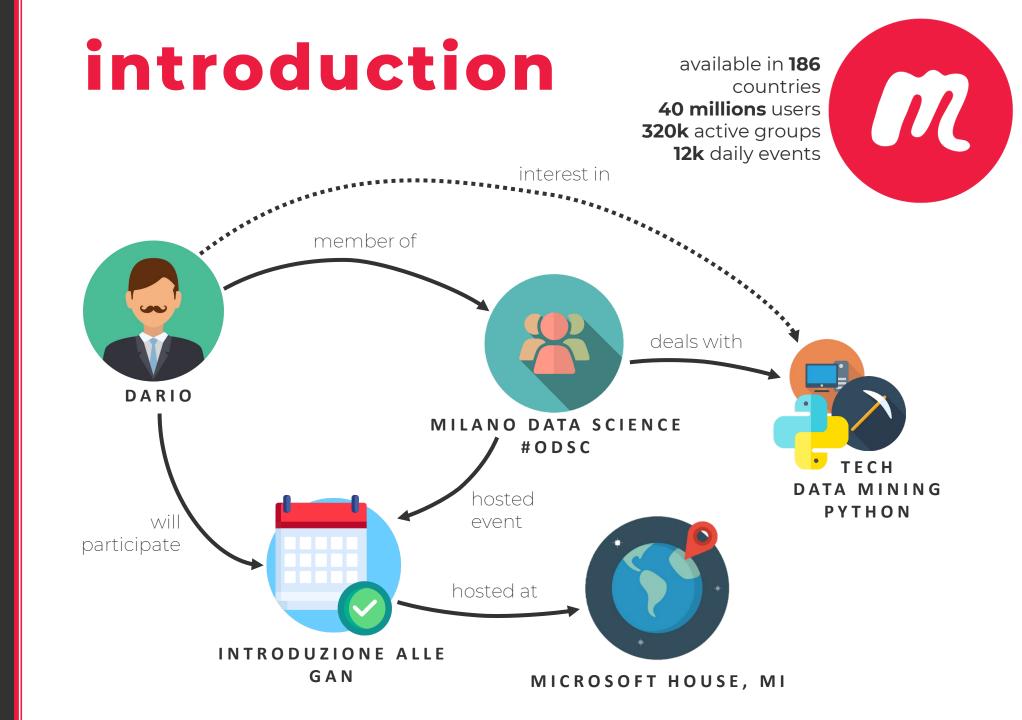




social network analysis



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goals



quantitative measures



temporal distribution of the events



event area of influence



recommender system efficiency analysis

covered points

from Big Data V(s)





architecture

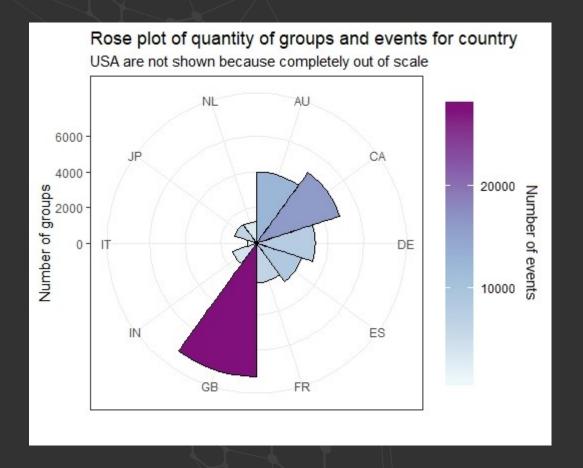


```
• Massimo numero di partecipanti ad un evento per Paese
let eventsWithPart = (
    for m in member
        for e in 1..1 outbound m will partecipates
                                                                                                                          .0.3.1.2.0-7
                                                                                                                          cket-processors-nar
             collect event name = e.event name, event = e. id with count into participants
                                                                                                                                         5 min
             sort participants desc
             return {"participants": participants, "event_id": event, "name": event_name}
                                                                                                                                         5 min
                                                                                                                                         5 min
for event in eventsWithPart
                                                                                                                                         5 min
    for g in 1..1 inbound event.event_id hosted_event
    collect country = g.group_country
    aggregate max_part = max(event.participants)
    sort max_part desc
    return {country, max_part}
                                                                                                                          1.2.0-7
• Jaccard similarity measure between declared and group topics for every member
                                                                                                                                         5 min
                                                                                                                                         5 min
                                                                                                                                         5 min
match (m:Member)-[r:IS_INTERESTED_IN]->(t:Topic)<-[r1:DECLARED_INTEREST_IN]-(m)</pre>
                                                                                                                                         5 min
with count(t) as corrispondenze, m
match (m)-[r:DECLARED_INTEREST_IN]->(t:Topic)
with count(r) as dichiarati, corrispondenze, m
                                                                                                                              success
match (m)-[r1:IS_INTERESTED_IN]-(t:Topic)
                                                                                                                              0 (0 bytes)
with m, corrispondenze, dichiarati, count(r1) as interessato
return m.id as ID.
corrispondenze,
dichiarati,
                                                                                                                                       PutFile 1.5.0.3.1.2.0-7
                                                                                                                                      org.apache.nifi - nifi-standard-nar
interessato.
(toFloat(corrispondenze))/((toFloat(dichiarati)+toFloat(interessato))-toFloat(corrispondenze)) as jac_similarity
                                                                                                                                        318 (453.47 KB)
                                                                                                                                                                         5 min
                                                                                                                              Read/Write 453.47 KB / 453.47 KB
                                                                                                                                                                         5 min
order by jac similarity desc
                                                                                                                                        0 (0 bytes)
                                                                                                                                                                         5 min
                                                                                                                             Tasks/Time 318 / 00:00:00.288
             print "resp 2"
                                                                Tasks/Time 313 / 00:00:01.515
                                                                                                            5 min
                                                                                                                                                                         5 min
             print response2
```

relations_members-groups-topics.py

results





quantitative measures

quantity of events by Country

quantity of groups by Country

maximum number of participants by Country

average number of guests for each participant

trend topic among users

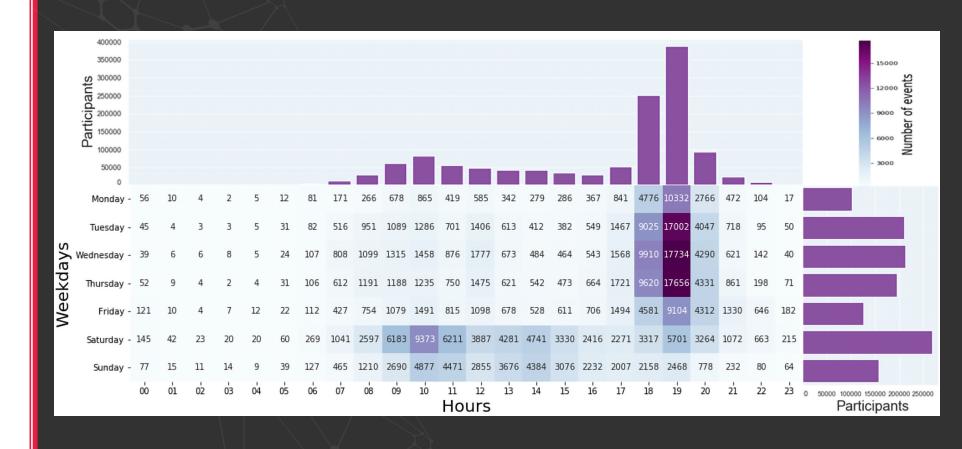
trend topic for groups

temporal distribution of the events

best moment for a meetup

- in a day
- during the week

worldwide vs locally





area of influence (event)

an interactive map that

displays useful informations

about events, including a

measure of the area of

influence radius for each event

Jaccard similarity for topics between members considering 'declared_interest_in' and 'is_interested_in' relations The greatest part of the member 7.5 reached a value near 0 Density -2.5 -Only few of them reached a value equal to 1 0.0 -0.25 0.50 0.75 0.00 1.00 Jaccard Similarity

recommender system analysis

evaluate the recommender system
efficiency investigating similarity between
the group topics and those topics the user
is interested in

it is more like an idea!

challenges

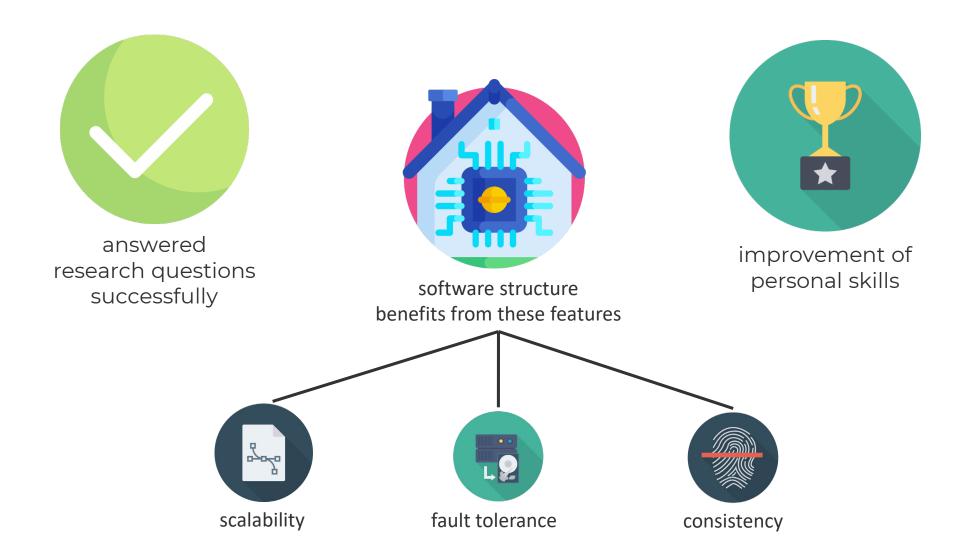




conclusions



KEY POINTS



THANK YOU

