

Applied Data Science Project

L21 - Success stories

Giuseppe Rizzo
Turin, October 19, 2022











Success stories

Stories of 3 applied data science projects

For each, it is worth noting:

- how the objectives are framed
- the tasks addressed by the artificial intelligence tools developed in the projects

The target audience of these stories are public/innovators

No technical choices nor experiment descriptions







Explore a city





tourist and cultural data: <u>events</u>, <u>places</u>, and <u>transportation</u>





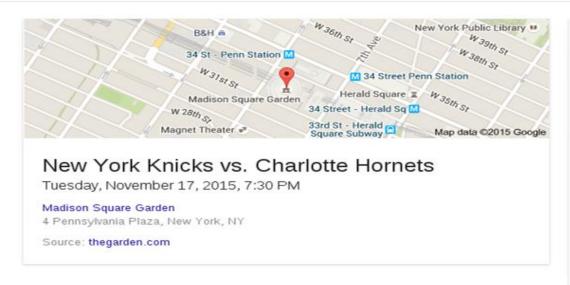
madison square garden upcoming events



	Web	News	Shopping	Videos	Maps	More ▼	Search tools	
	MADISON SQUARE GARDEN. Madison Square Garden / Events							
	Tue, Nov 17 7:30 PM		New York Knicks vs. Charlo				Sat, Nov 21 12:00 AM	The All Access Tour
	Wed, Nov 18 12:00 AM		The All Access Tour				Sun, Nov 22 1:00 PM	2K Classic Benefiting Wou
	Thu, Nov 19 8:00 PM		Billy Joel				Mon, Nov 23 7:00 PM	New York Rangers vs. Nas
	Fri, Nov 20 5:00 PM		2K Classic benefiting Wou				Tue, Nov 24 8:00 PM	Stevie Wonder: Songs in th



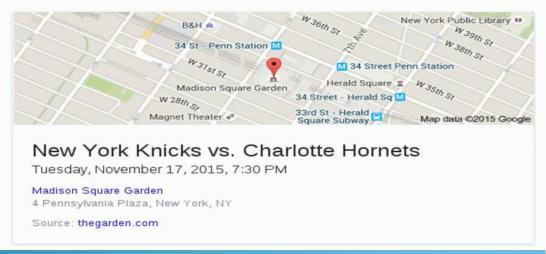
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Wed, Nov 18 12:00 AM	The All Access Tour	Sun, Nov 22 1:00 PM	2K Classic Benefiting Wou	Thu, Nov 26 12:00 AM	The All Access Tour
Thu, Nov 19 8:00 PM	Billy Joel	Mon, Nov 23 7:00 PM	New York Rangers vs. Nas	Fri, Nov 27 7:30 PM	New York Knicks vs. Miami
Fri, Nov 20 5:00 PM	2K Classic benefiting Wou	Tue, Nov 24 8:00 PM	Stevie Wonder: Songs in th	Sat, Nov 28 8:00 PM	Red Hot Hockey











Charlotte Hornets at New York Knicks - Vivid Seats
www.vividseats.com/nba.../new-york-knicks.../knicks-11-17-1872819.ht... ▼
Charlotte Hornets at New York Knicks Tue. Nov 17, 2015 7:30 PM - Madison Square
Garden, New York, NY. NOTE: Prices set by sellers, may be over face-value ...

Charlotte Hornets Tickets - Ticketmaster

www.ticketmaster.com > ... > 7 > Charlotte Hornets ▼ Ticketmaster ▼ Results 1 - 10 of 68 - Nov. 17. Tue. Madison Square Garden New York , NY 07:30 PM.

New York Knicks vs. Charlotte Hornets. See Tickets. Nov. 18. Wed.

 Tue, Nov 17
 New York Knicks vs. Charlotte ...
 Madison Square Garden ...

 Wed, Nov 18
 Charlotte Hornets vs ...
 Time Warner Cable Arena ...

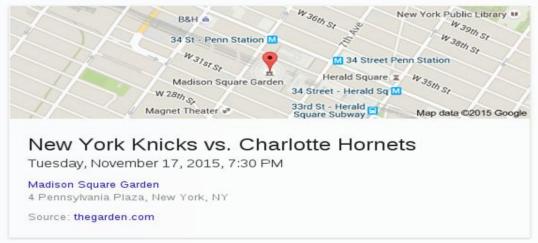
 Fri, Nov 20
 Charlotte Hornets vs ...
 Time Warner Cable Arena ...



nearby places?









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related events?



will be looking for an <u>Indian</u> restaurant reachable in <u>10 minutes on foot</u> from the <u>Madison Square Garden</u>





All Images Maps Videos News More ▼ Search tools

About 547,000 results (0.95 seconds)

10 Places To Eat And Drink Near Madison Square Garden ... www.foodrepublic.com/.../10-places-to-eat-and-drink-near-madison-squ... ▼
Nov 7, 2013 - Now we take on the food near Madison Square Garden, which has long ... find some really interesting things less than a 10-minute's walk away.

10 Restaurants Near Holiday Inn Express NYC Madison ...
www.tripadvisor.com > ... > New York City > New York City Restaurants ▼
Restaurants near Holiday Inn Express NYC Madison Square Garden on TripAdvisor:
See 646808 reviews and ... 03/04/2016; "A great variety of Indian dish.
Missing: reachable foot

Restaurants within Walking Distance of Monona Terrace conferencing.uwex.edu/.../RestaurantswithinWalkingDistanceofMonona... ▼ Madison, Wisconsin conference 2009. ... Sunprint Café on the Square (breakfast and lunch) ... Maharani Indian Restaurant (lunch buffet and dinner). 280 W. Washington Avenue (10 minute walk) ... the north side of W. Washington Ave. at the corner of Henry St. Fabulous Indian food, outdoor seating in an enclosed garden.

Hotel Row NYC at Times Square, New York City, NY ... www.booking.com > ... > New York City Hotels ▼

*** Rating: 7.5/10 - 7,910 reviews

In the Theater District and within a short walk of Times Square, this hotel ... The City Kitchen restaurant, also on site, offers New York city specialties. ... Radio City Music Hall. Madison Square Garden, the Empire State Building, and Javits Group is just





https://youtu.be/K6_ylq1ufH8

@giusepperizzo





PASTIME

PasTime: a new personalized "in-destination" experience

PasTime in a nutshell

Traveler needs at destination:

Right service and content at the right time, customized for ME



























PasTime – Project description

PasTime is THE innovative solution offering city visitors personalized, smart and attractive touristic recommendations based on a comprehensive knowledge base of local content promoting a territory combined with a deep understanding of travellers' behaviour and interests.

Products and Services Proposal

Semantic technologies for building comprehensive knowledge bases in the domain of culture and tourism.
 Product type: data Platforms

- Technologies for creating bundles of business and cultural tourist offerings that correspond to user needs.
- Technologies for recommending attractive offers to user groups based on a strong understanding of users interests, purchase behaviors and past activities (personalization).
- Product type: in-destination recommender system





Challenges are huge

Business Opportunity:

A huge addressable market:

_ "Addressable Market" represents 46% of the total travel spend* (€2,657B)



Increasing + 4% per year – and even more online...

For cities and tourism organisms:

- Give visibility on activities and tourist trumps (attractivity image promotion)
- A better knowledge of traveler behavior to adapt offers
- A way for visitors loyalty... Don't forget that a happy visitor is a better visitor





PasTime – Functional Diagram







Knowledge Base for Cities





Time for KB creation divided by 3 between Jan and Sep 2017





Digital





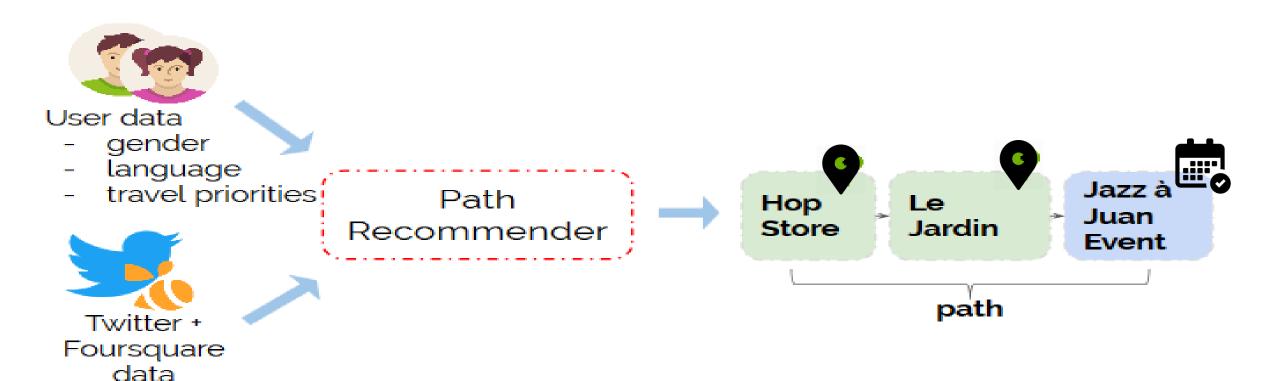








Innovation: Creation of Logical Bundles of Offers



amadeus

A unique deep learning based recommender system that generates bundles composed of accommodation, restaurants, shopping, activities, sights and events

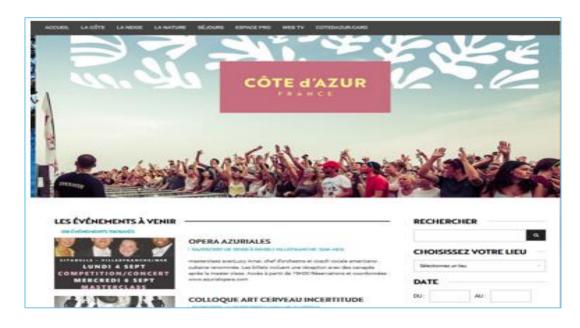


Product B2B2G: data platform for tourism

Extract, Transform, Load



CityMoove



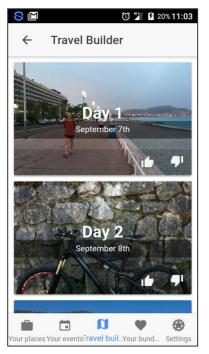
http://www.cotedazur-en-fetes.com/

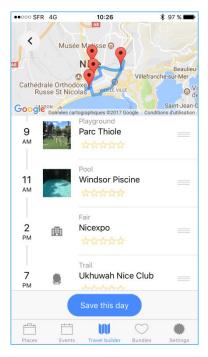






Product B2B / B2C: in-destination recommender

















Enabling immigrants to easily know and exercise their rights





You've made it, you've managed to leave your country.

You are in Europe, but your travel hasn't finished yet.

You still have a **long journey ahead** of you to get to know the new hosting country's societal institutions, culture, socio-economic settings.

You'll have to orient yourself and try to grasp how to live where you are, accessing the different kinds of resources required for your daily life.

You'll have to **learn a new language**.

You'll have to understand what your rights and duties are.

And you'll need to be oriented in this journey".

(by a NGO member, Milan, Oct.2017)



You've made it, you've managed to leave your country.

You are in Europe, but your travel hasn't finished yet.

You still have a long journey ahead of you to get to know the nociety, hosting country's societal institutions, culture in in a new society, it is a landing, a plugging-in in a new birth...

It is a learning process, it is a new birth...

It is a learning process, it is a new birth...

It is a learning process, it is a new language.

You'll have to understand what your rights and duties are.

And you'll need to be oriented in this journey".

(by a NGO member, Milan, Oct.2017)



Migration is bigger and more contentious than ever

While work is the still the main reason people move to another country, growing conflicts and instability are increasing the number of people forced from their homes.

While in the U.S. and Europe, concerns that migrants are stretching local services and disturbing order have been harnessed by nativist politicians embracing tighter controls, advocates for migrants lament the many who die attempting to reach a new land or face exploitation once there.

(E. Vickers, C. Alexander, Bloomber Businessweek, Oct.2019)



Migration is bigger and more contentious than ever

While work is the still the main reason people move to another growing conflicts and instability are increasing an EMERGENCY from their homes we are in the middle of a CONFLICT we are in the middle of a CONFLICT and in the middle of a CONFLICT will disturbing order have been because it is another to another the growing the still the main reason people move to another the growing that the middle of an EMERGENCY we are in the middle of a CONFLICT will disturbing order have been because it is another than the middle of a CONFLICT.

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easyRights...

EASYRIGHTS aims at improving the easiness for

(im)migrants to exercise their rights by:

- 1. including two distinct instances of the concept of rights: the rights of **non-citizens** (OHCHR, 2006 refugees, asylum seekers, illegal or irregular immigrants) and the rights of the '**new citizens**', (UNHCR, 2006 legal immigrants under the general framework of integration)
- interpreting simplification as a problem of communication, trying to define a new international standard – the easyRights
 Mediation Grammar









EXERCISING RIGHTS



ACCESSING SERVICES











easyRights...

EXERCISE RIGHTS



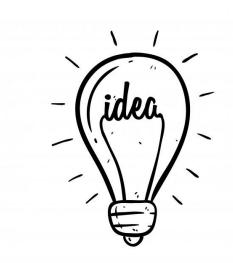
awareness of basic rights/services



communication also involves the service providers



user-centricity for bureaucratic complexity

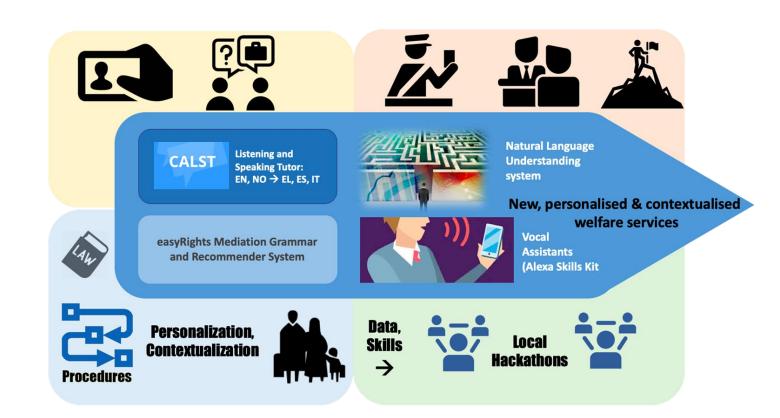






EXERCISE RIGHTS











Thank you for your attention.

Questions?





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