Cyber Security e tecnologie intelligenti nella PA: dal machine learning all'intelligenza artificiale

Roma, 28 Novembre 2018 h. 9.00-13.30

Lo stato dell'arte delle tecnologie basate sul machine learning e l'Intelligenza Artificiale

Luisella Giani EMEA Business Innovation Director

organizzato e promosso da



















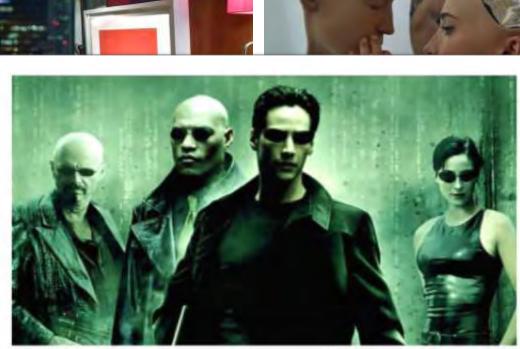


























...as soon as it works, no one calls it A.I. anymore

John McCarthy, coined the term Artificial Intelligence in 1956















Old wines in new bottles

Data Models

AI

Processing Power

A BLEND

Big Data



Stan

110





SC







Is there a dog in the picture?

Machine Learning is machine's ability to keep improving its performance without humans having to explain exactly how to accomplish all the tasks it's given.

Harvard Business Review Jul-2017

2012 Image recognition

2017

Speech recognition







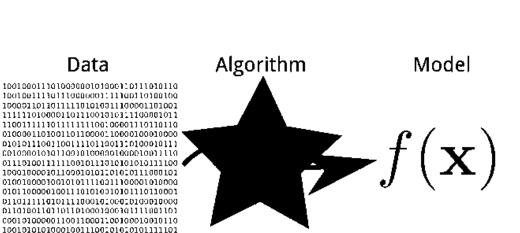




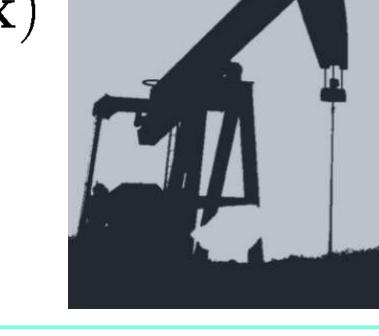




What makes machines intelligent?



DATA IS THE NEW OIL ... making machines intelligent. Intelligent DATA is the new FUEL.















Ready-To-Go

Suite of packaged, AI-powered Apps to solve specific business needs

Ready-To-Build

APIENZA INARTHAD DI

AI platform model, train, deploy, manage bespoke AI powered solutions

Ready-To-Work

Cloud Service Applications

giving autonomous scalability & high performance in The Cloud









What's your superpower



ORACLE DATA CLOUD

Data on what consumers do, buy, where they go 7BILLION GLOBAL **CONSUMER PROFILES, 400M** business profiles \$3 trillion in consumer transactions, 40,000 segments of data from more than 1,500 sources and over 15 million website.

Largest Variety and Volume **Captures Highest Velocity Data** Changes

Learns and Adapts in Milliseconds





convegno







How AI/ML can optimize the citizen experience?

Why people do like chatbot/voicebot?











Chatbot better than humans?

Chatbots are good listeners











Voice seen as an escalation.

60%

of issues that end up as a call didn't start that way.

81%

Web and mobile self-service interactions overtake all other channels.

56%

Other self-service channels on the rise. Online forum/community, YouTube videos.

46%

1st choice is not the phone Voice increasingly evolve to be an escalation.

Instant gratification: real-time solution **Convenience and connection Conversational and personal engagement**



USERS around the world are on Instant Messaging apps (emarketer)













Student Guidance Bot (Built in 2 weeks)

- Day 1: 2500 users chatted to the bot. Increase in Engagement with far more people than we would have if we were not using the bot.
- 47% less calls than last year, have had 197 live chats
- Average wait time on the phone only 1.5 minutes, compared to up to 40 minutes last year

40 min down to 1 min 30 sec Average call wait time 99

Today we have had **47% less calls than** last year ... **Our call % handled is sitting at 93%,** ... are actually able to **decrease our email backlog as we have staff to spare**! Our student service manager (who provide extra support during this day) said this is the smoothest he's ever seen results day run.

Catherine Cherry, Director of Student Recruitment and Admission Services













Make the right usage of humans



High complex issues

video chat and co-browsing



Standard issues

web self service, virtual assistant, chatbot

Virtual Assistant or Chatbot plus clear governance for esclation to human agent, Oracle Policy Automation, Oracle Knowledge Automation

Medium complexity











Al to suggest Next best action













Next Best Action: AI as Decision making support



Marketing and Digital

Coordinated Open-Time Content Optimized Marketing Orchestrations



Commerce

Next Best Offers and Recommendations Intuitive Search Experiences Connected Audiences



Sales

Best Sales Actions Smart Call Points



Service

Automated Answers



Supply Chain

Best Value Freight Options Inventory and Supply Chain Optimization



Human Capital Management

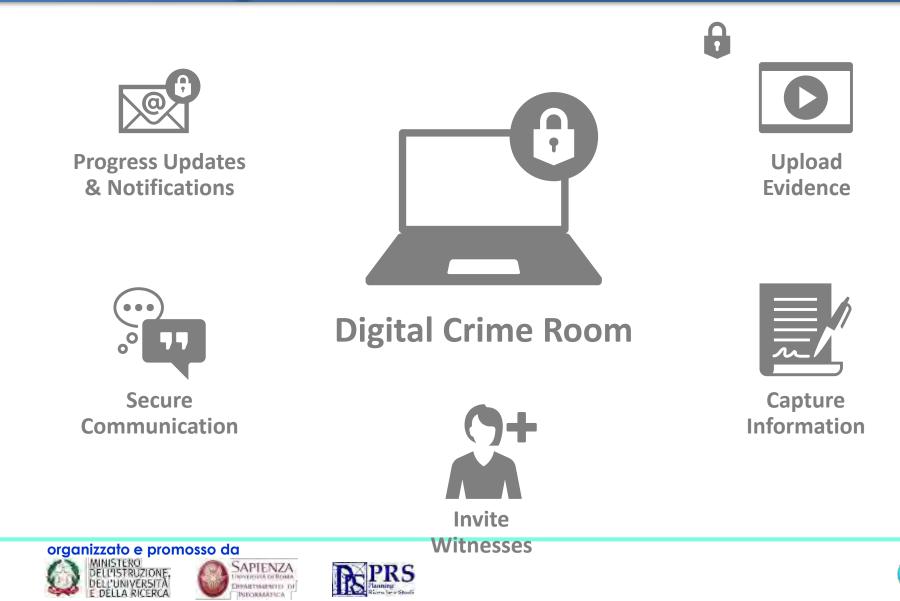
Best Fit Candidate Lists





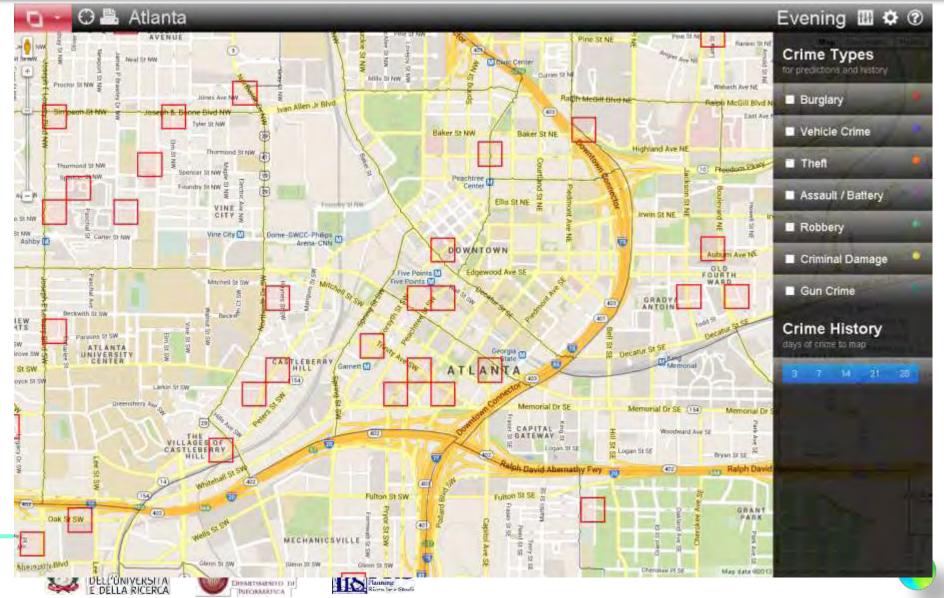
The Digital crime room

20





The Police Brain-Intelligence Dispatch





Intelligent Dispatch



Automated Scheduling

Build optimized scheduled based on real-time data

Self-learning

Learns historical patterns of each individual for future scheduling

Predictive

Predicts with 98% accuracy, when each activity will start and finish









Fraud Detection



CUMEXEI **A CROSS-BORDER INVESTIGATION**

How Europe's taxpayers have been swindled of €55 billion

#CumExFiles

CORRECTIV Panorama THOMSON REUTERS Se Monde la Repubblica DIE ZEIT ZEIT MONLINE El Confidencial











Deutsche





- Third largest bank by assets in the United Arab Emirates
- Identification of possible threats in a very early stage by providing an efficient credit monitoring system
- Deployed Oracle Advanced Analytics for Hadoop , BDD on Oracle BDA
- Provided an end to end solution with Loxon's Early Warning System operational application

\$5.5M Saving costs

Saving in risk costs

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Data lab to find savings and cost reduction in healthcare budget



Business Services Authority

- United Kingdom's National Health Service
- Identify billing and identity fraud
- Optimize treatment by reducing use of less effective medical procedures
- Deployed Oracle Advanced Analytics, and Oracle Business Intelligence on Oracle Exadata and Oracle Exalytics

\$561M confirmed savings identified















Smart Applications International Improves Access to Healthcare

- Medical insurance automation application platform. 3,000 insured companies; accessed by over 3,000 healthcare facilities; reach to over 1 million insured individuals
- Biometric Smart solution: The insured can biometrically identify themselves easily, and access their coverage, balance, and benefits. The hospital can provide appropriate treatment based on the unique biometric information and coverage rules on the card.
- Oracle Cloud Solutions to ensure the data stored on the biometric identification cards is accurate and accessible by all interested parties, at all times

)% Increase in processing and verifying claims

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Boise State makes student successfull using data





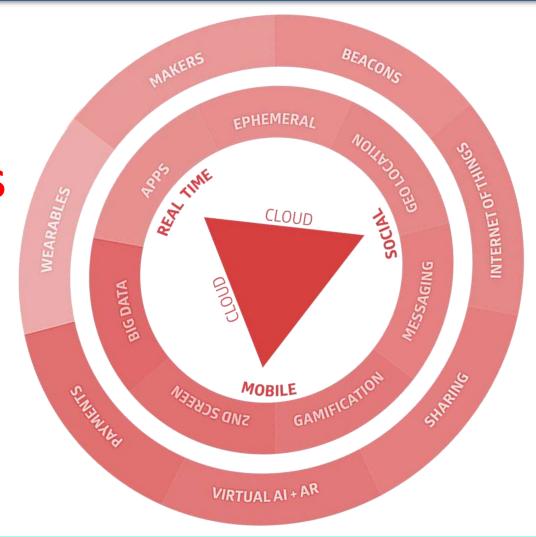








DISRUPTIVE **TECHNOLOGIES ALIGNING**













We will start to "outsource" more our decisions, choices and tasks to AI.













We have to learn to dance with the robots, not to run away.







