

FORUM ANALYTIQUE D'AFFAIRES SAS DE MONTRÉAL

Mercredi le 29 novembre 2017

ORDRE DU JOUR

8:35 – 9:05 **Maintenant que les machines pensent comme les humains, que nous restera-t-il comme travail?** (*Loreto Chiovitti, Consultant sénior, Ktalysis inc*)

9:05 – 9:35 **Deep Learning and it's Applications (en anglais)** (*Labeeb Khan*)

9:35– 10:05 **L'AI, mythes et réalités!** (*Jocelyn Gascon-Giroux, Architecte principal de solutions, SAS Institute Canada Inc.*)

10:05 –10:30 **Networking Break/Pause réseautage**

10:30 –11:00 **Comment conjuguer vos forces pour créer la valeur avec l'intelligence artificielle!** (*Freddy Ntako, Banque Nationale du Canada*)

11:00 –11:55 **Discussion Panel** (*moderator: Loreto Chiovitti, Consultant senior, Ktalysis inc*)

11:55 –12:00 **Mots de la fin et prix de présence**

MAINTENANT QUE LES MACHINES PENSENT COMME LES HUMAINS, QUE NOUS RESTERA-T-IL COMME TRAVAIL?

Présenté par: Loreto Chiovitti
2017.11.29

AVANT



Management
Information
Systems

Decision
Sciences

Business
Intelligence

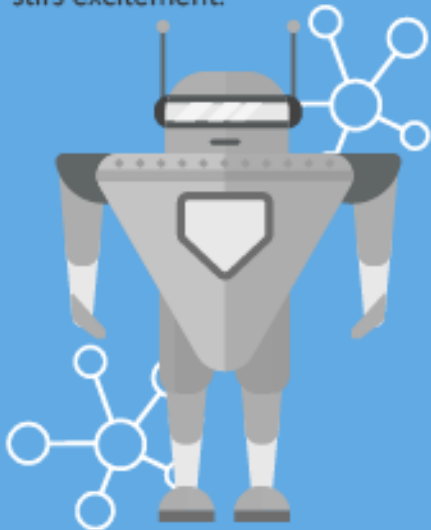
Business
Analytics

BIG DATA

MAINTENANT

ARTIFICIAL INTELLIGENCE

Early artificial intelligence stirs excitement.



MACHINE LEARNING

Machine learning begins to flourish.



DEEP LEARNING

Deep learning breakthroughs drive AI boom.



1950's

1960's

1970's

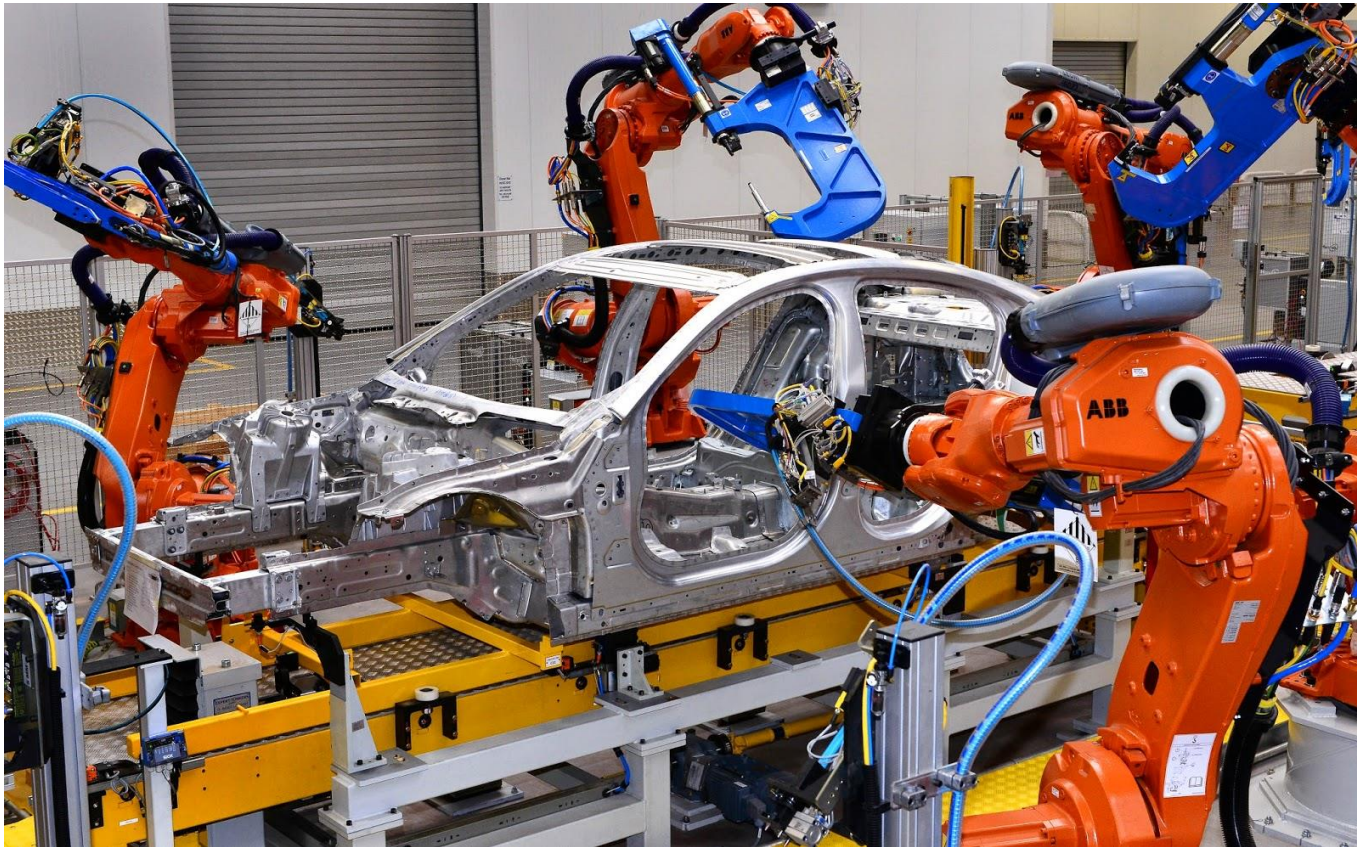
1980's

1990's

2000's

2010's

LES ROBOTS QUI VOLENT LES JOBS



UNE NOUVELLE GÉNÉRATION DE “ROBOTS”

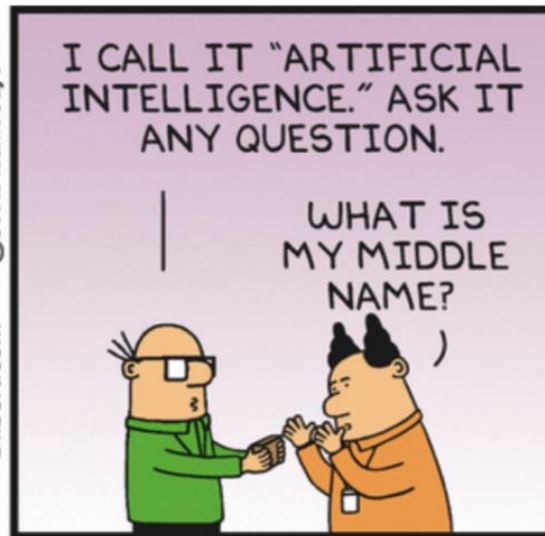


LE BATTAGE MÉDIATIQUE

Tuesday June 21, 2016 *Wally Builds An Mvp Version*



Dilbert.com @ScottAdamsSays



6-21-16 © 2016 Scott Adams, Inc. /Dist. by Universal Uclick



SAMSUNG'S 'AI-POWERED' WASHER IS JUST TRYING TO SAVE YOU TIME



RESTAURANTS SANS EMPLOYEES



EST-CE QU'UN ROBOT VA ME REMPLACER?

The image shows a screenshot of a web browser displaying a BBC news article. The browser's address bar shows the URL `bbc.com/news/technology-34066941`. The article title is "Will a robot take your job?". Below the title, the date "11 September 2015" and the category "Technology" are visible, along with social media sharing icons for Facebook, Twitter, LinkedIn, Email, and a general "Share" button.

The main text of the article reads: "Type your job title into the search box below to find out the likelihood that it could be automated within the next two decades." It also states: "About 35% of current jobs in the UK are at high risk of computerisation over the following 20 years, according to a study by researchers at Oxford University and Deloitte."

Below the text is an interactive graphic. At the top, a row of icons represents various professions: a robot, a businessman in a suit, a construction worker in a hard hat, a doctor, a woman in a business suit, a large industrial robot, and a smaller robot. Below these icons is a large grey box with the text "I am a..." and an empty search input field. Underneath the input field, it says "Can't find your job? [Browse the full list](#)". At the bottom of the grey box is a button that says "Find out my automation risk >". The background of the graphic features stylized illustrations of a factory, a forklift, a person holding signs, and a robot.

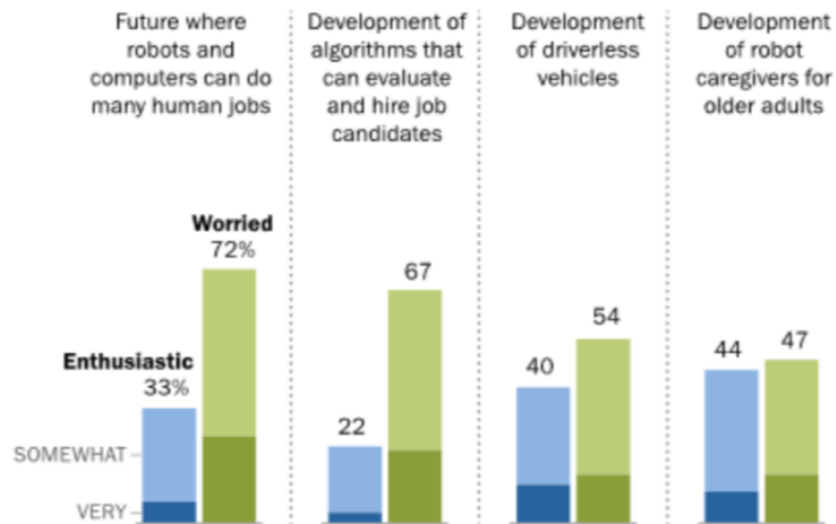
The Windows taskbar is visible at the bottom of the screenshot, showing the search bar with the text "Type here to search", several application icons, and the system tray with the date "2017-11-25" and time "12:50 PM".

LE PEUPLE EST INQUIET

More worry than optimism about potential developments in automation

More worry than optimism about potential developments in automation

% of U.S. adults who say they are enthusiastic or worried about ...



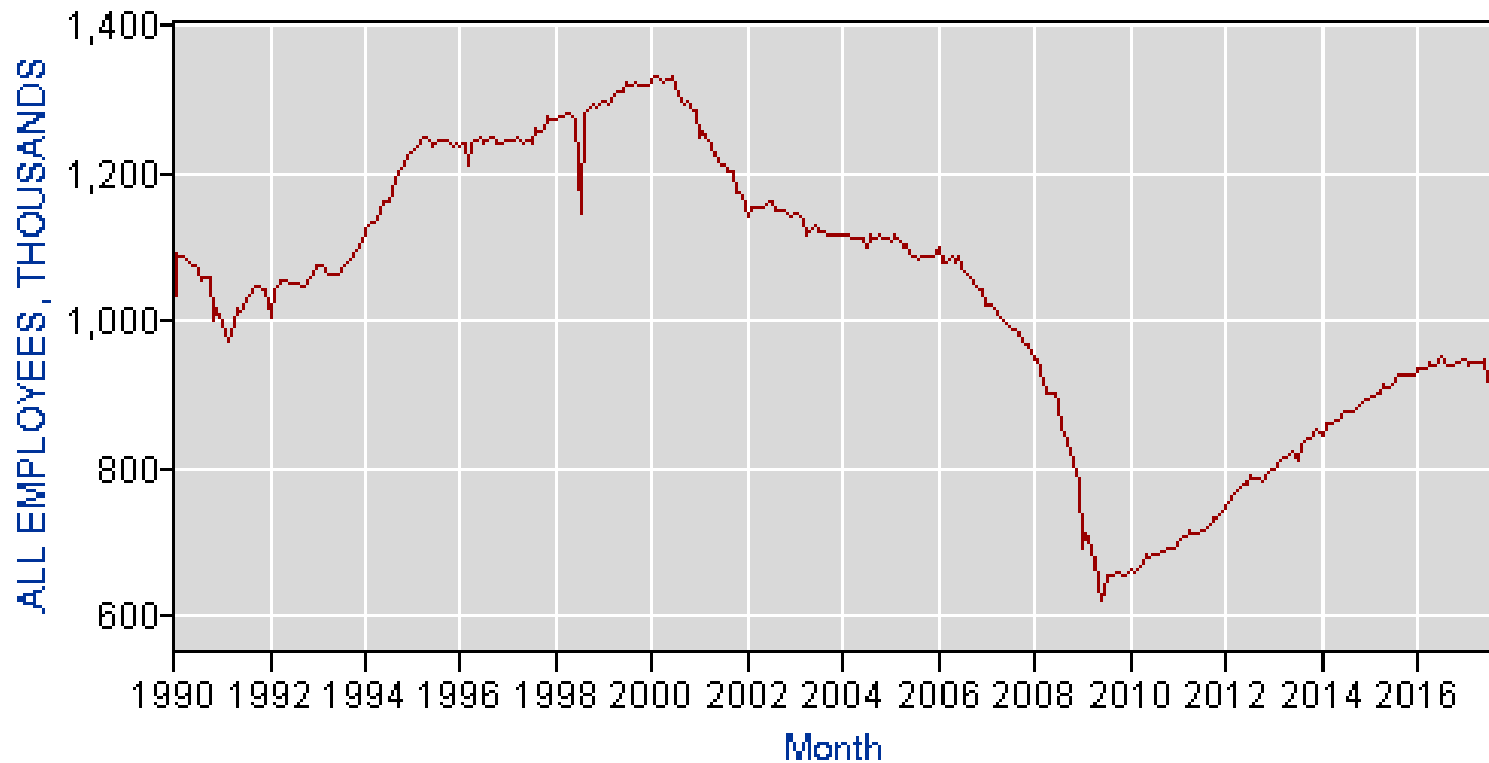
Note: Respondents who did not give an answer are not shown.

Source: Survey conducted May 1-15, 2017.

"Automation in Everyday Life"

PEW RESEARCH CENTER

L'INDUSTRIE MANUFACTURIER DE L'AUTOMOBILE (USA)



<https://data.bls.gov/pdq/SurveyOutputServlet>

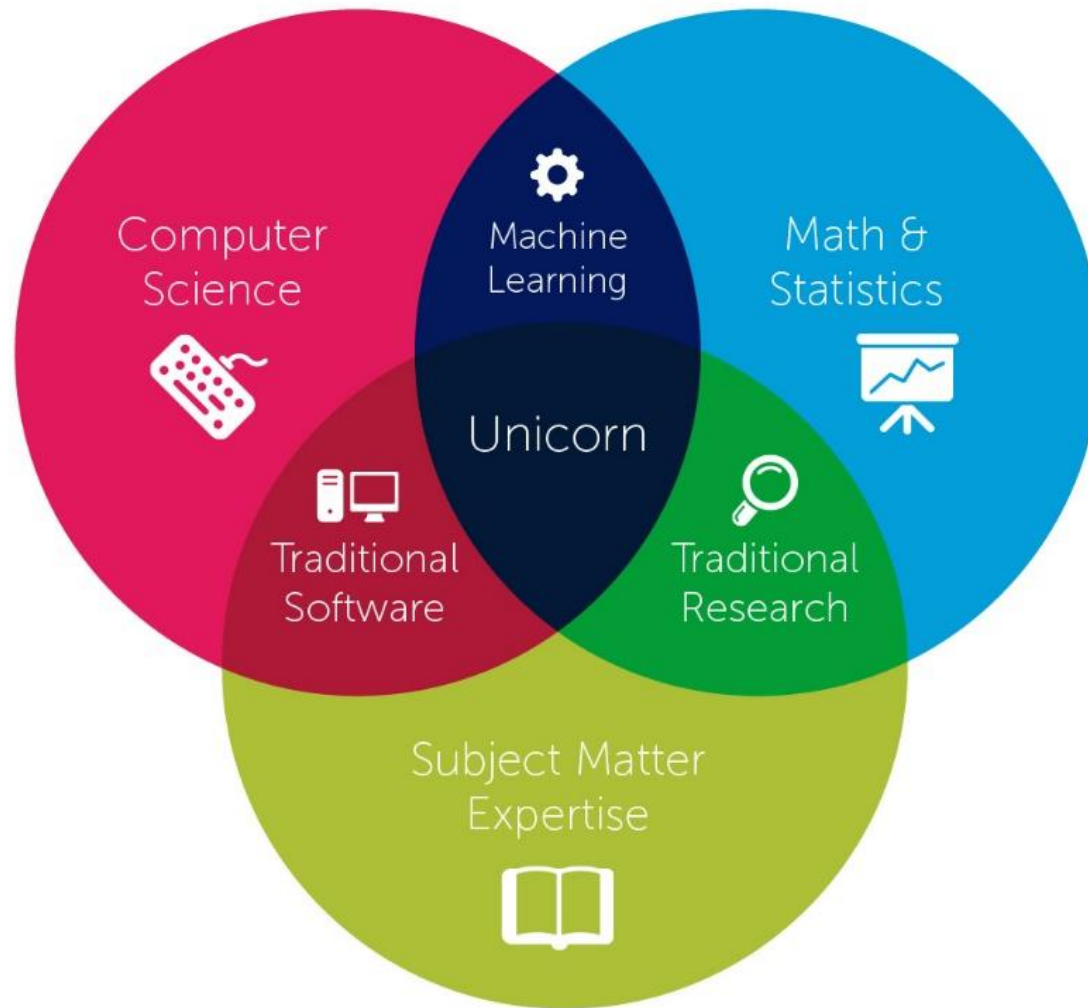
DATA SCIENTIST

THE SEXIEST JOB OF THE 21ST CENTURY



Tom Davenport – Harvard Business Review 2012

Data Science



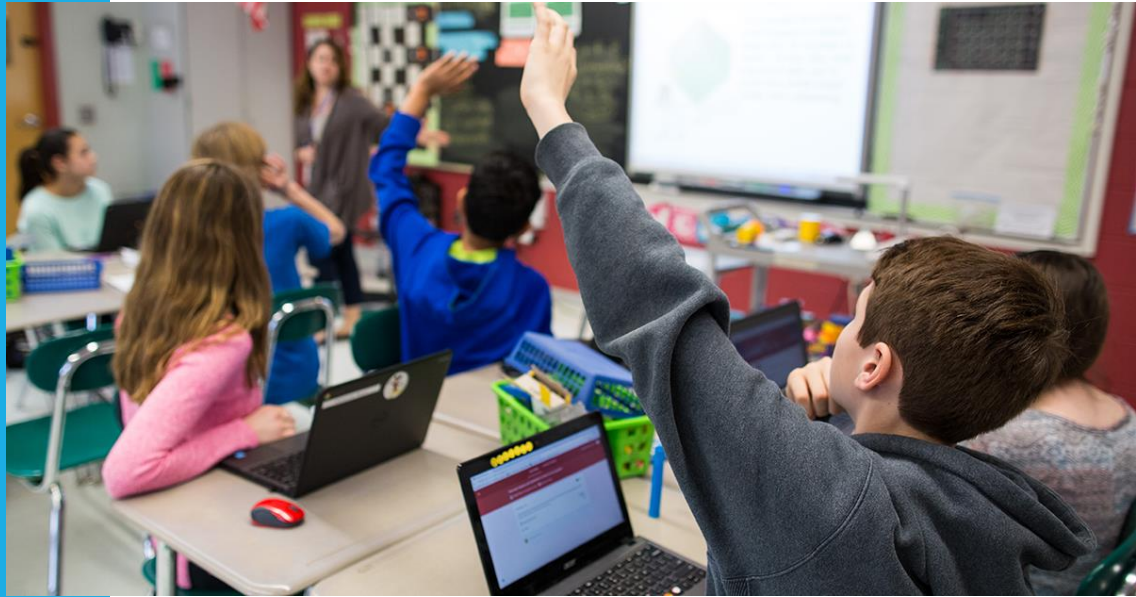
LA SALLE DE CLASSE

Encadrement

Problèmes définis

Communication

Récapitulation



LA SALE DE RÉUNION

Zones “grises”

Décisions basé sur
l’intuition

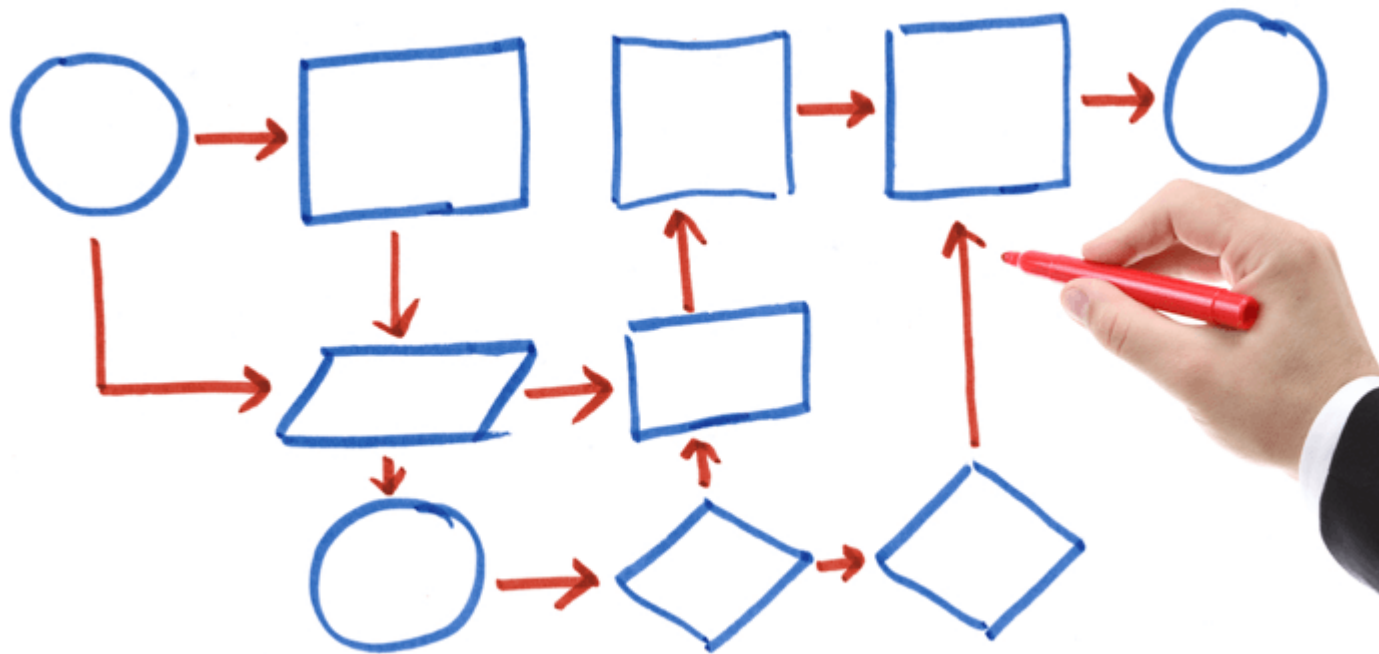
Motivation

Retention

Embauche



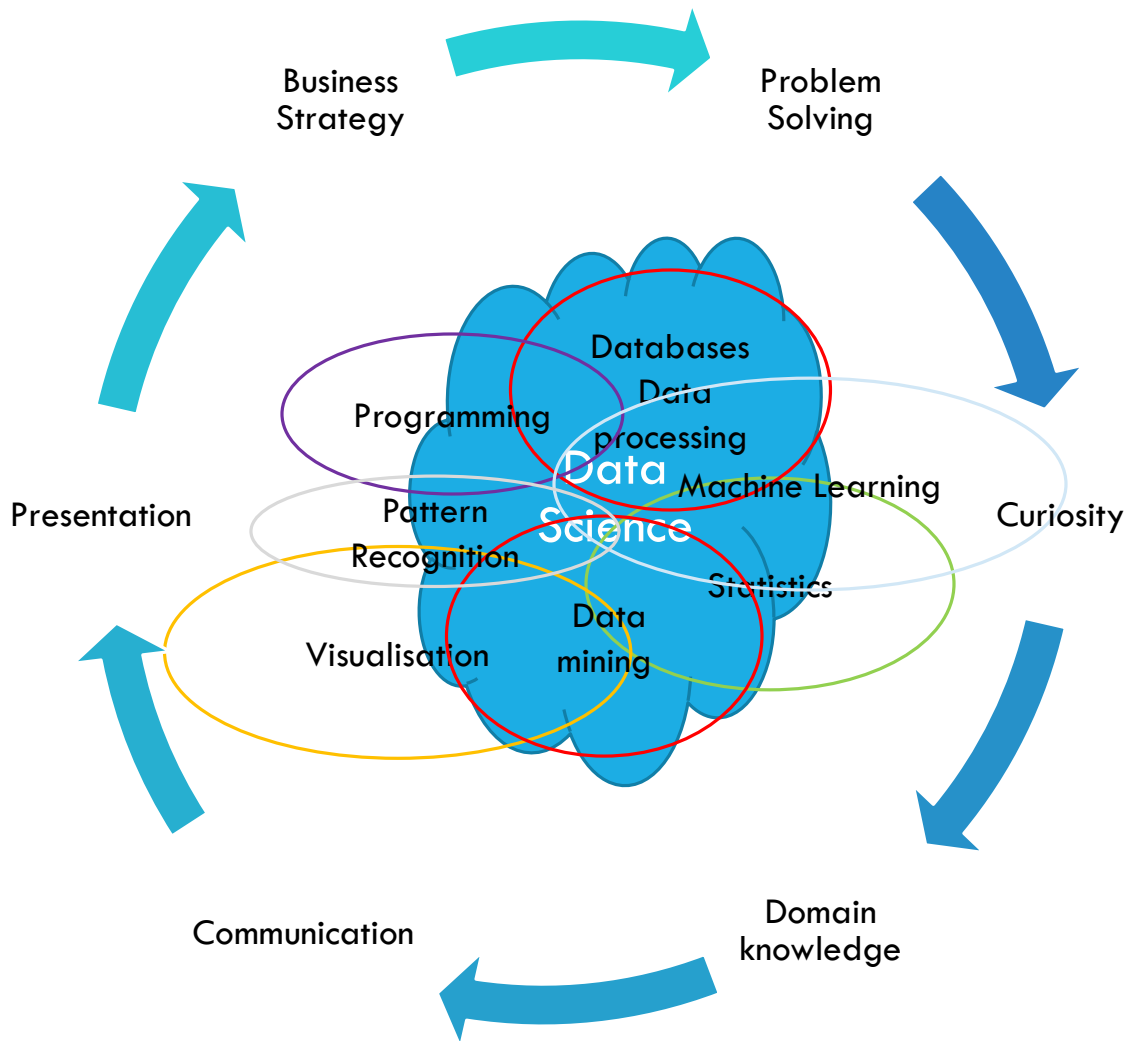
LES PROCESSUS D'AFFAIRES



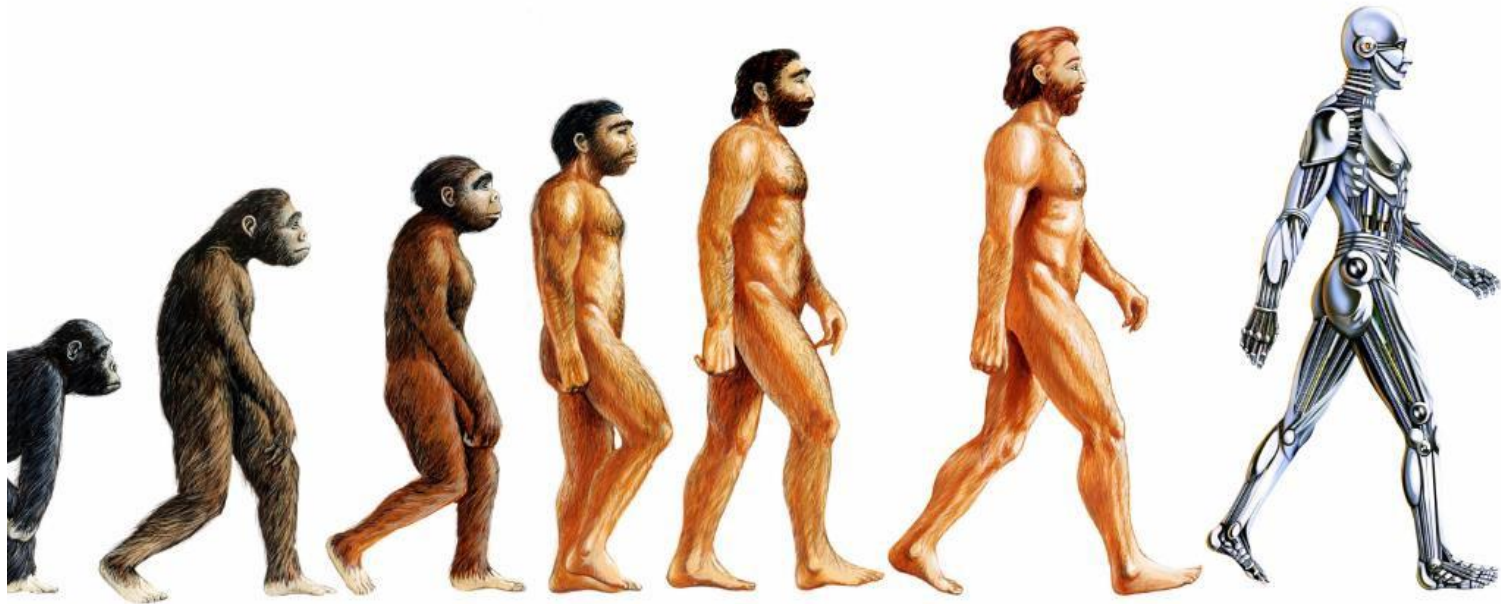
L'INTÉGRATION



LES COMPÉTENCES



QUELLE SERA LA PROCHAINE EVOLUTION?



DES NOUVEAUX RÔLES

CHARACTERISTICS OF A DATA WHISPERER

Data scientists aren't born—they're made. IT pros from all backgrounds are working to gain the types of skills companies need as the demand for data scientists outpaces the supply of qualified candidates. These are some common personality traits and skills of a data scientist.



Personality traits:

Intellectual curiosity combined with skepticism and good intuition. A tireless problem-solver driven to find a needle in a haystack. Creativity to guide further investigation with the goal of uncovering new information.



Interpersonal skills:

A storyteller who knows how to present data insights to drive business value and who can communicate with people at all levels of an organization.



Business skills:

Data scientists need knowledge far beyond data analysis and statistics. They need the business savvy to discover patterns that can be used to identify risks and opportunities and the leadership skills to influence business leaders to make data-driven decisions.



Education:

Bachelor's degree in statistics, data science, computer science or mathematics.



Specialized skills:

Data mining, machine learning and distributed computing. Ability to integrate structured and unstructured data. Experience with statistical research techniques, including modeling, data mining, clustering and segmentation.



Tools of the trade:

Familiarity with Hadoop, Pig, Hive, Spark and MapReduce. Comfortable with SQL, Python, Perl or other scripting languages, as well as statistical computing languages such as R.



L'ETHIQUE

SCI-TECH

Elon Musk: 'We are summoning the demon' with artificial intelligence

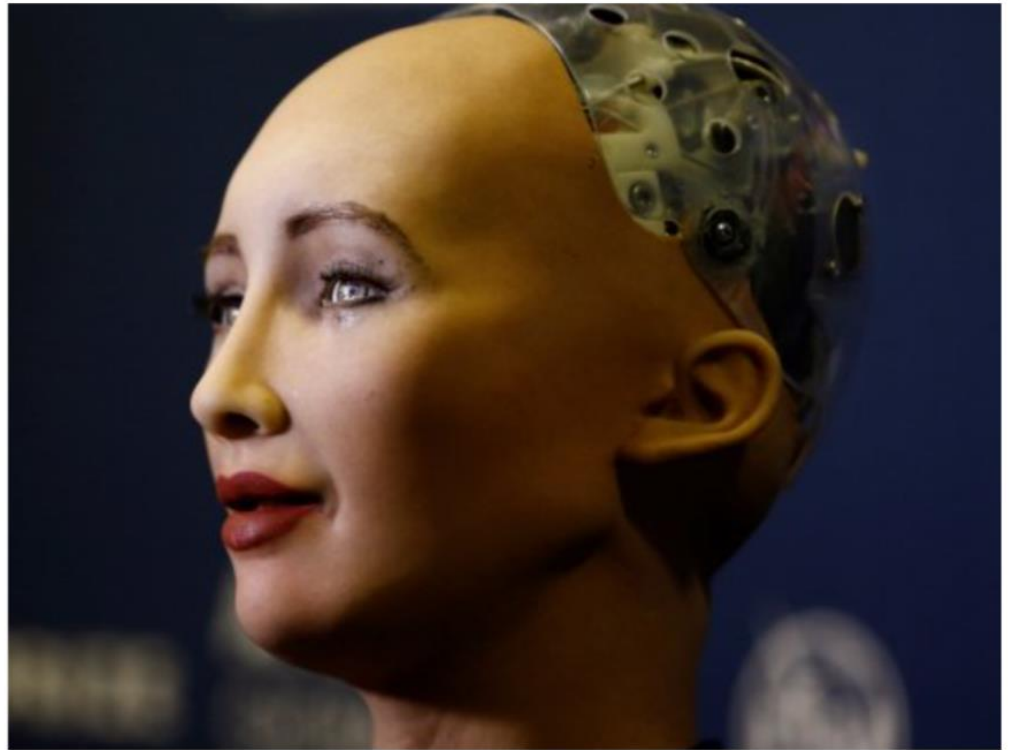
While he believes smart machines can take us to Mars and drive our cars for us, Musk remains worried that artificial intelligence holds a darker potential.

BY ERIC MACK / OCTOBER 26, 2014 10:09 AM PDT



DEBATS POUR DEMAIN

- **Saudi Arabia is the first country to grant citizenship to a robot.**
- **Sophia, the humanoid produced by Hanson Robotics, spoke at the recent Future Investment Initiative.**
- **Sophia has said it would 'destroy humans,' when prompted by its creator, David Hanson.**



Denis Balibouse/Reuters

EST-CE QUE HOLLYWOOD A RAISON?



CONCLUSION

Regarder au delà du
battage médiatique

Compétences classiques

Nouveaux créneaux

