AI & Skills

Applied Machine Learning Days - EPFL

29.01.2020 - Isabelle Chappuis









What is a "SKILL"?



Competences



"Ability to perform in a given

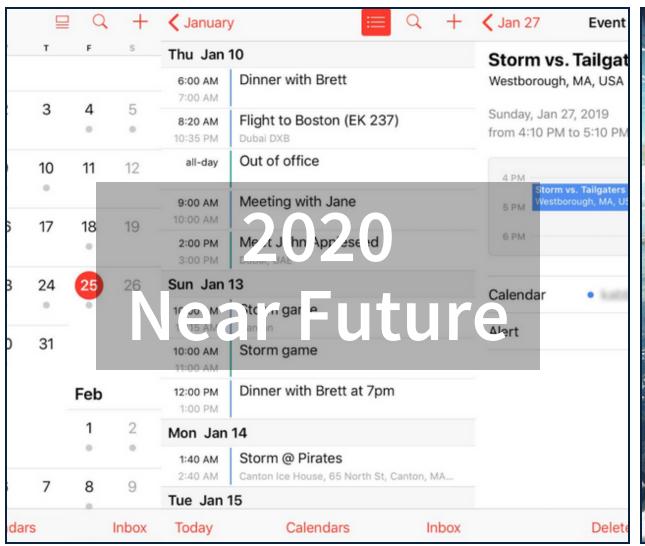






Experience

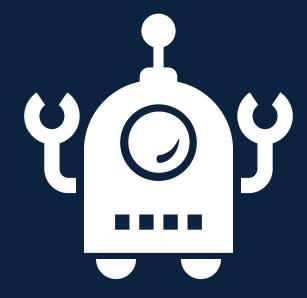
What is the "FUTURE"?





(1) Near Future

Risk of robotization



Reorientation pathways



Risk of robotization



UNIL-EPFL Research project | human vs. machine capabilities | obsolescence calculator

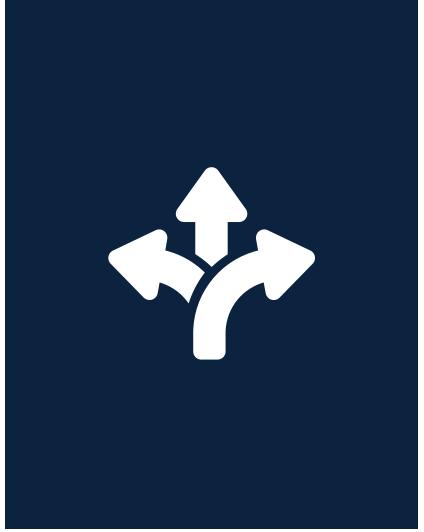
Reorientation pathways based on skills



Algorithm to identify the shortest reskilling way towards a new robot-proof job

(2) Far Futures







Why?

Natural inertia in the academia...



How? Future Skills Lab's Methodology







"It is more important to out-think your enemy, than to outfight him"

Sun Tzu

Our Speakers today

AI & Skills from the learners & educators' perspectives



Mara Pasquali

Advisor in Marketing and Communications

@ Independant



Frédéric Baffou
Senior Lead Consultant Digital Strategy
@ Antaes Consulting



Pierre Vandergheynst
Vice-Presidence Education
@ EPFL



The New Way of Getting Digital Skills

Digital Summit Switzerland 26 November 2019



Tech company

Traditional company



The Great Tech Transformation

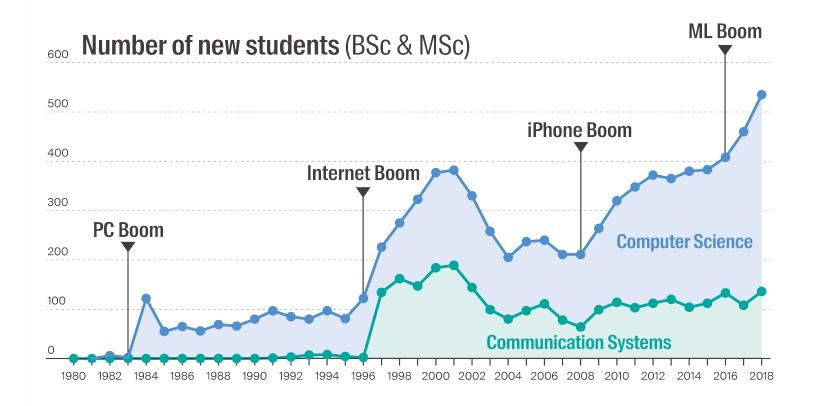
Most valuable companies by market cap







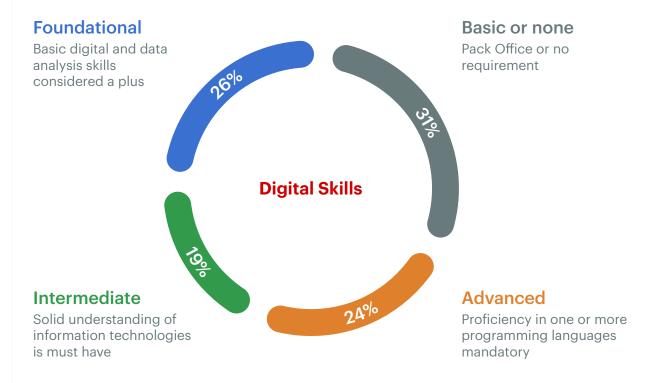
The Transformation Has a Cause: Trained Experts







The Transformation Creates a Need: Trained Employees





The EPFL Extension School is Pioneering a New Model

- + World class courses
- + Fully online
- + Personal, 1-on-1 support
- + Potentially leading to an EPFL diploma
- + No academic prerequisites



Courses & programs

Our courses are designed to provide deep, effective training that move you from digital dabbler into the level of knowledge and expertise required to keep you relevant in your current and future roles.

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50 Things You Need to Know About the Internet

150 hours

Beginner Course

Foundations of Data Science

150 hours

Beginner Course

Thinking and Creating with Code

150 hours

Advanced Course

UI Development with React.js

75 hours

Intermediate Program

Applied Data Science: Machine Learning

450 hours | EPFL Diploma

Intermediate Program

Web Application Development

450 hours | EPFL Diploma

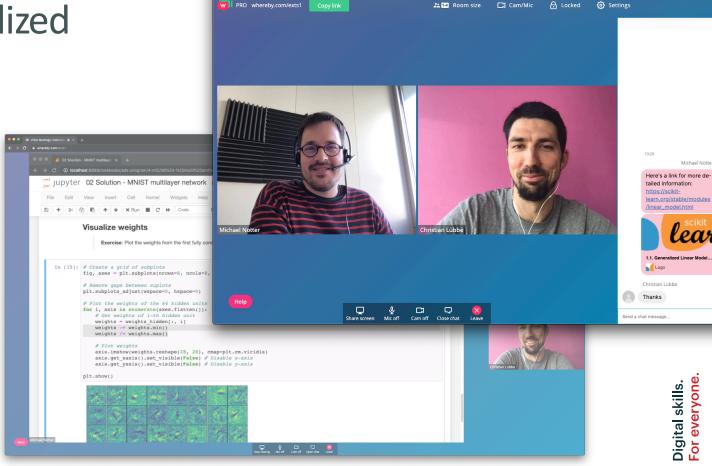
Intermediate Program

Applied Data Science: Communication & Visualization

450 hours | EPFL Diploma



One-to-One Personalized Support

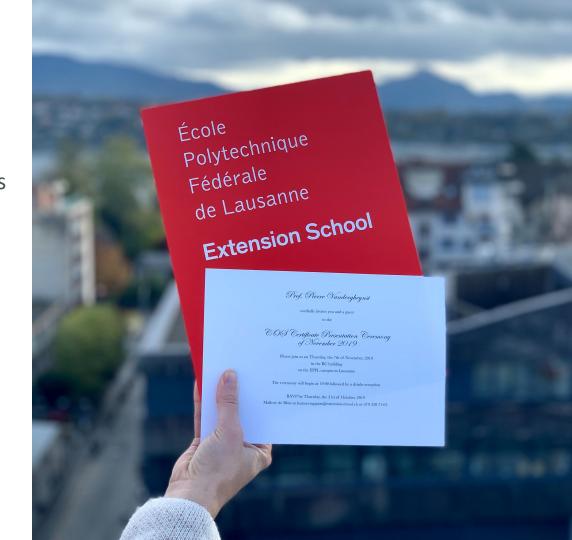


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EPFL COS Certificate of Open Studies

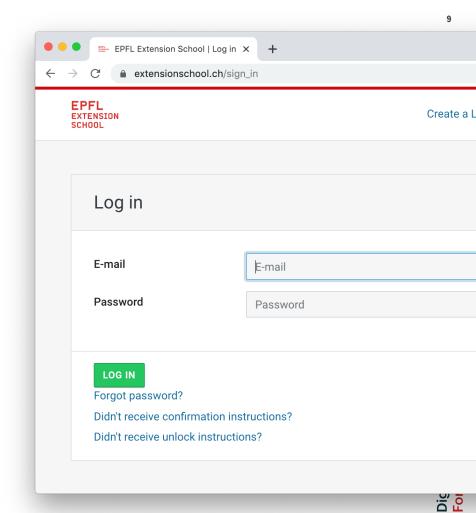
- + No academic prerequisites
- + Unique in Switzerland





We Built Our Own Platform

- + We control the data
- + We don't need to monetize learners' data
- + We don't sell your employees
- + We can iterate very rapidly





Our Learners Work at Your Company









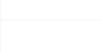




Honeywell







CERN



ALPIQ





















BUHLER











What They Say Learners' Feedback

My models are able to increase the accuracy of our production line by 2-3%, a clear cost reduction opportunity for my company.— J.c.

"I have done many courses, even with the big tech companies, but yours are incomparable. I have never before done an online course with this level of quality, ever.















What They Say Learners' Feedback

Before I started the courses, the Internet was just a given, like a light switch that you can turn on. Now I understand how it really works and I can see the opportunities.

— L. R.

As a new mother who is working 80%, self-paced learning is perfect for me. I can work while my baby sleeps.

— A. F.

Before, I didn't have the permission or confidence to call myself a Data Scientist, even though I had studied at one of the most renowned universities in the world.

— V. M.









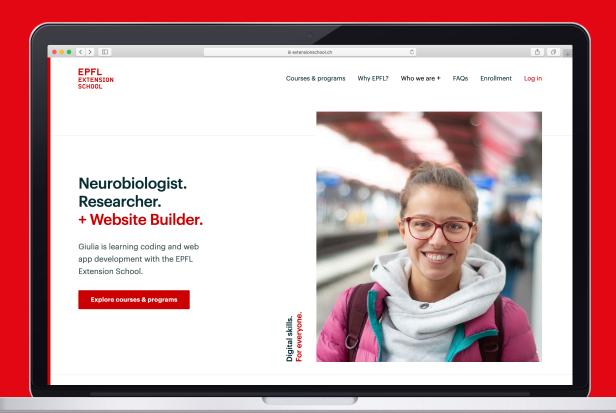




Swiss.



Neutral. High Quality. Applied. Cutting Edge. Certified.



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Thank you.

Marcel Salathé Academic Director EPFL Extension School