

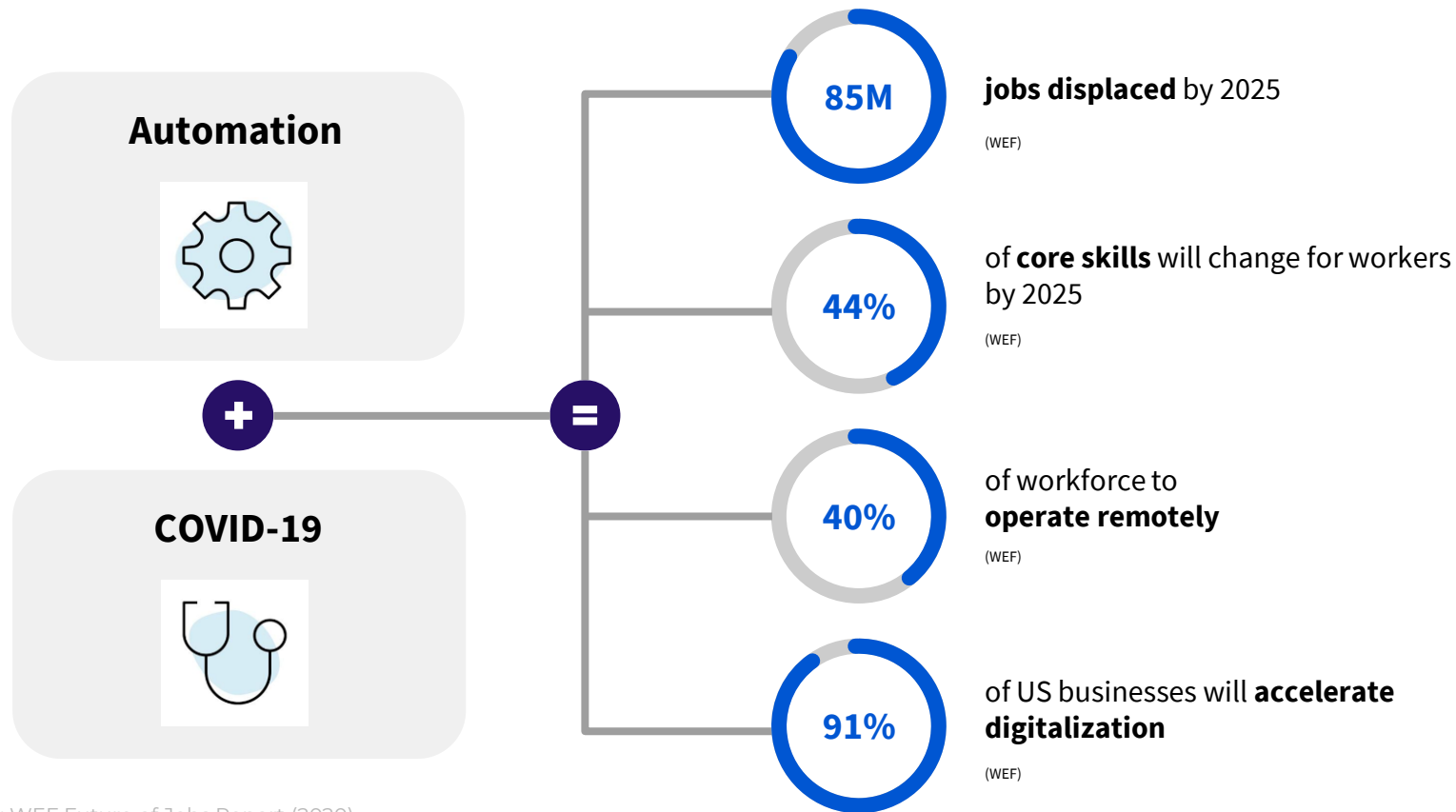
The Future of Work in Financial Services



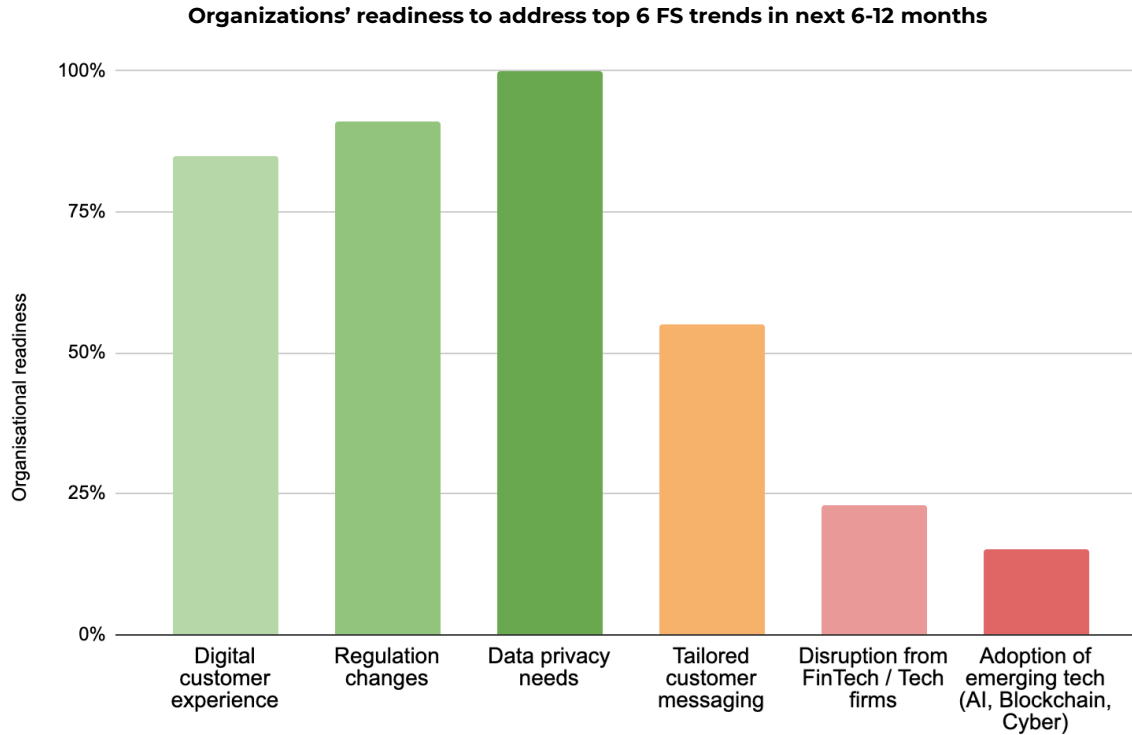
Tim Stanton

Enterprise Account Executive
Coursera

The impact of ‘double disruption’ on businesses



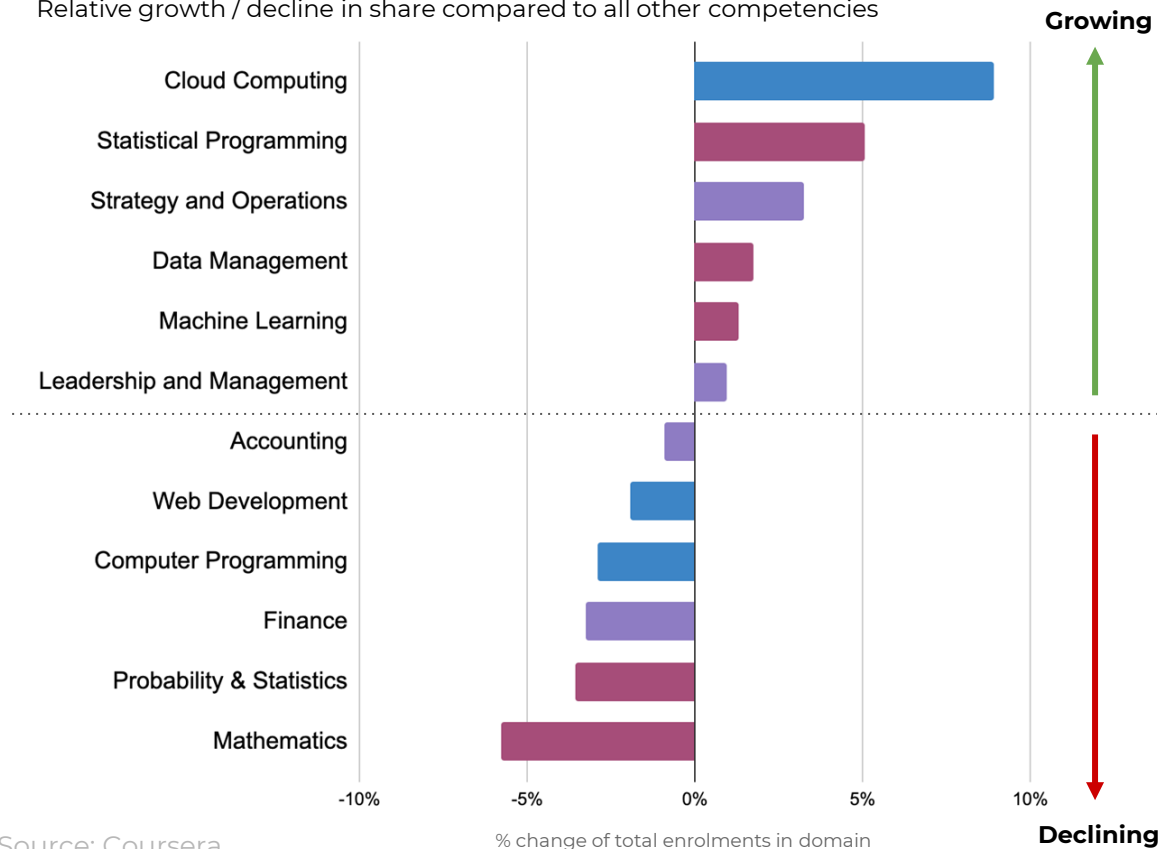
FS firms are addressing multiple **competing trends**



Financial Services companies are least prepared to respond to competition and the adoption of emerging technologies

This is reflected in the skills FS learners are building

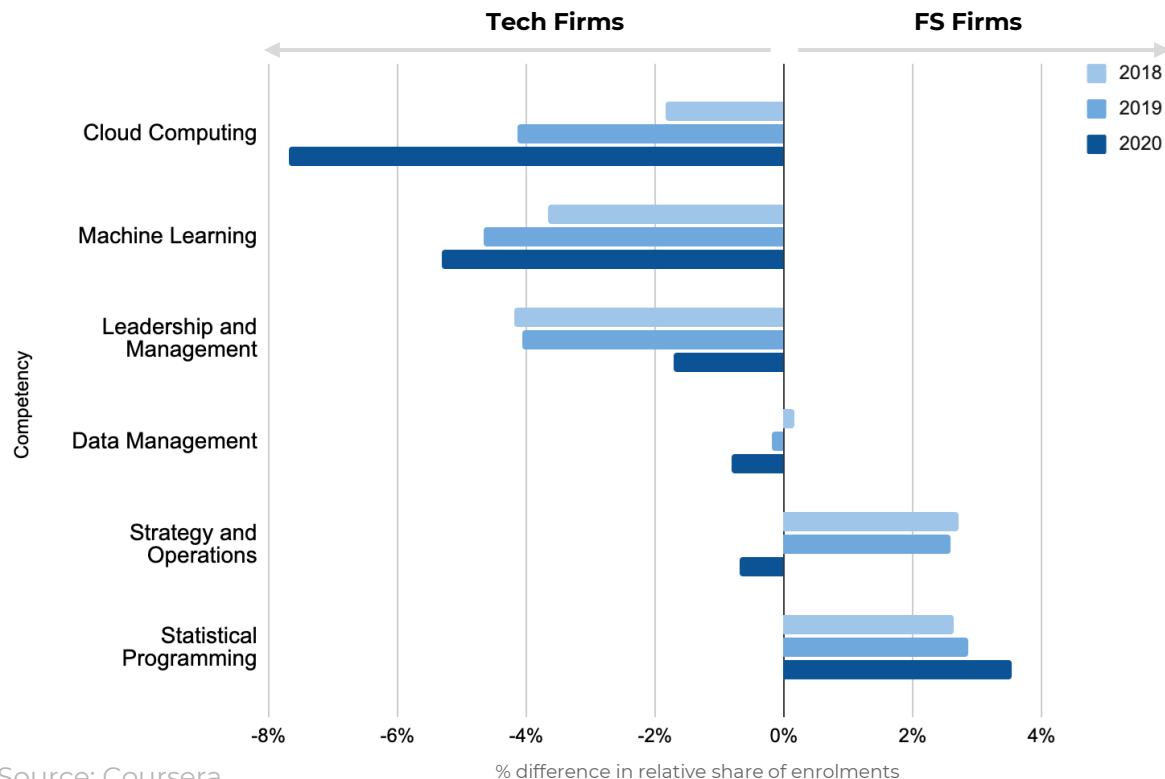
Relative growth / decline in share compared to all other competencies



Covid-19 has triggered increased investment in Cloud, Big Data & changes to strategy and leadership

Declining skills are either those at risk of automation or skills that don't support scalability

But tech companies are investing more heavily in emerging / advanced skills (e.g Cloud and AI)



Tech companies are putting more resources into the critical growth skills (e.g. Cloud and Machine Learning)

The average technology learner is also spending **8%** more time learning than the average finance learner

At all levels, human skills are growing in importance

Human skills now make up the majority of the top trending skills on Coursera

	2019	2020
1	Python Programming	Writing
2	Neural Networks	Strategy
3	Algorithms	Python Programming
4	Regression	Mindfulness
5	Strategy	Meditation
6	Deep Learning	Gratitude
7	Writing	Kindness
8	Supply Chain	Listening
9	Cloud Computing	Algorithms
10	General Statistics	Learning

The top leadership skills in FS firms point to changes in strategy and customer focus

Top FS Leadership Skills		Themes
1	Strategy & Planning	Digital-first strategy
2	Problem Solving	
3	Design Thinking	Decision making in tough times
4	Crisis Mgt	
5	Culture	Customer focused innovation
6	Digital Strategy	
7	Collaboration	'Agile', Collaborative culture
8	Innovation Mgt	
9	R&D Mgt	
10	Decision Making	

This is how firms are responding to the trends

	Tier 1 Investment Bank	Global Investment & Retail Bank	Technology Firm
Business	MBA-Lite	Functional (HR, Risk, Talent)	Functional (Customer, HR, Marketing, Product, Finance)
Data	Data Basics Data Science and AI	Data Literacy for all Data Science Academy (CoE)	Data Science & AI
Technology	UX & Software Design Cybersecurity	Tech Collections Cloud Academy	Skills 5.0 (Software, Automation, Blockchain, IOT, Robotics, Cloud)
Leadership & Human	Critical Human Skills	Leadership Development Human Skills for all	Trending Soft Skills
<i>Skills Dvt</i>	'Cutting Edge' in business analysis, strategy & ops, accounting and security	'Cutting Edge' in Data Management, Machine Learning , HR, Communication	'Cutting Edge' in software eng, architecture, security, networking and mobile development

Bold = strength area

Strengths and Growth Areas

Rapid disruption in the industry calls for sharpening skills performance in industry strengths across business, tech, and data science.

Cutting-edge skills in:

Business

Accounting

Finance

Tech

Databases

Data Science

Machine Learning

Math

Statistical Programming

Statistics

Customer-facing Business skills, like sales, marketing, and communications, are critical to adapt to increased online banking.

Lagging skills in:

Business

Management

Marketing

Tech

Security Engineering

Data Science

Data Management



Industry

Finance

Falling behind in customer-facing skills like sales, marketing & communication.

Mixed tech outlook

as the industry focuses on cloud computing and blockchain but lags in cybersecurity.

Strong in data science, with a significant investment in machine learning and AI skills.



Business

Accounting



Communication



Finance



Management



Marketing



Sales

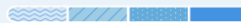


Technology

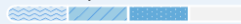
Computer Networking



Databases



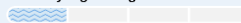
Human Computer Interaction



Operating Systems



Security Engineering



Software Engineering



Data Science

Data Management



Data Visualization



Machine Learning



Math



Statistical Programming



Statistics





Industry

Finance | Trending Skills

Business

Microsoft Excel
Digital Marketing
Financial Modeling
Blockchain
Project Management

Technology

Cloud Computing
Artificial Intelligence
Algorithms
C
Algorithmic Trading

Data Science

Python
Deep Learning
SQL
Data Storytelling
R

81% of banking CEOs* express concern over the speed of technological change.

[*Financial Services Technology 2020 and beyond, Embracing Disruption: PWC](#)

WEF and their partners are focusing on **seven priority industries** for reskilling and upskilling

	Industry
	Advanced Manufacturing
	Aerospace
	Consumer
	Financial Services
	Health
	Mining and Metals
	Oil & Gas

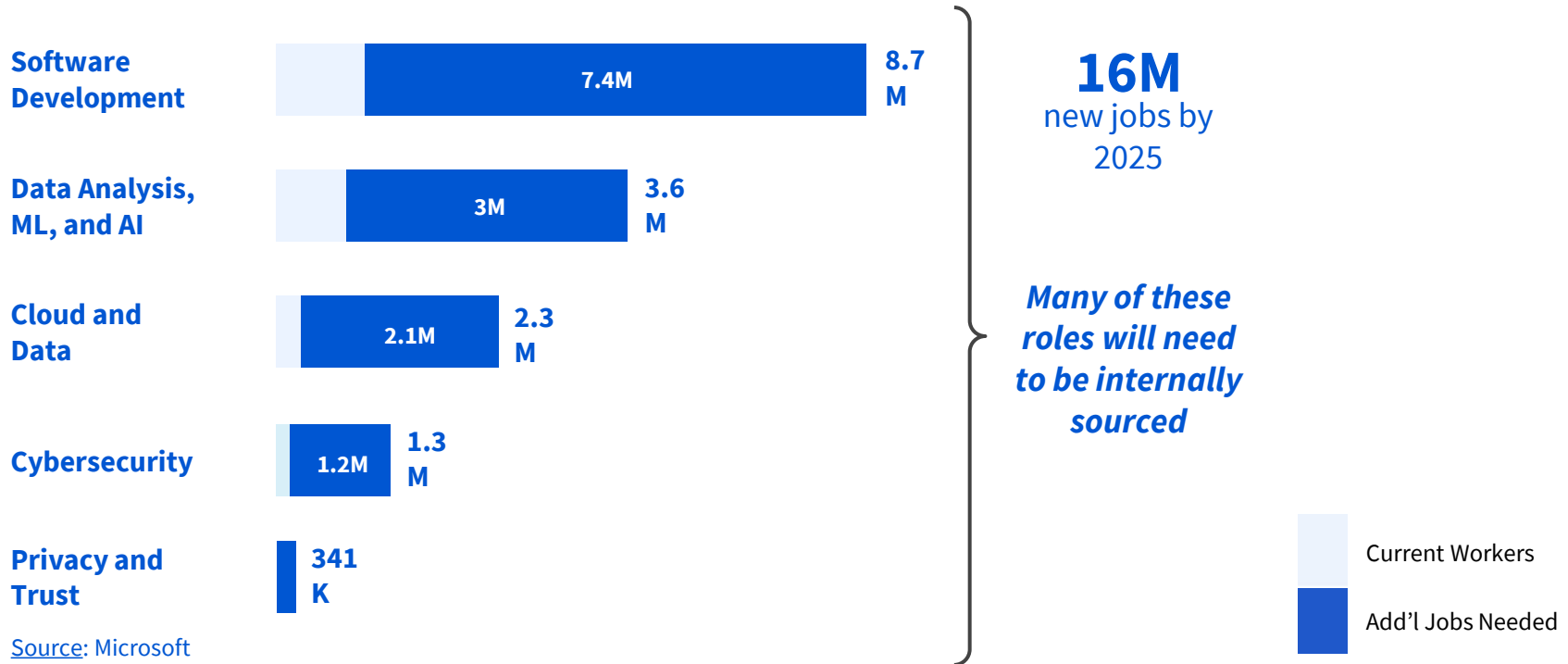
In Financial Services, skill needs are set to **change dramatically**:

44% Average skill instability among current workforce

51% Expected redeployment success rate of workers

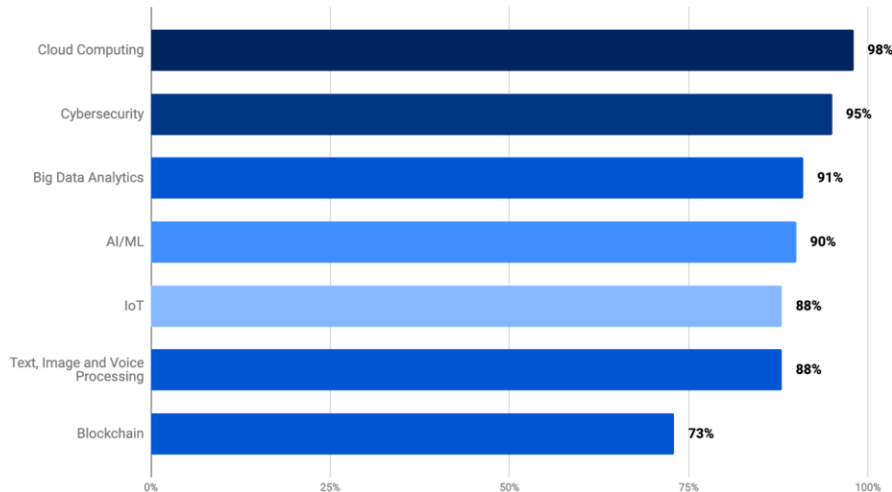
[Source: Financial Services - Future of Jobs Survey 2020, World Economic Forum.](#)

The finance industry is **anticipated to need millions** of new digital jobs by 2025



Technology adoption **will be hampered** by a shortage of talent

Top technologies likely to be adopted by Financial Services firms by 2025



Source: PwC CEO Survey, WEF Future of Jobs 2020

76%

of CEO's see skills shortages as a threat to their growth prospects

59%

Companies believe skill shortages present the biggest barrier to adoption of emerging technologies

40%

of CEO's plan to initiate significant retraining and upskilling

5 Key trends in Financial Services contributing to the skills gap

1

**Threats
from Big
Tech**

2

**Digitally-enabled
customer is king**

3

**AI and Cloud is
only the first step**

4

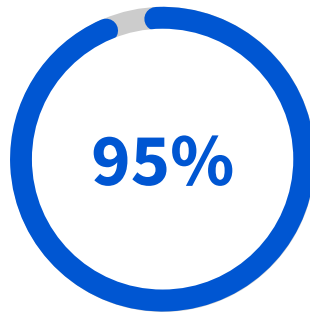
**Data sharing and
centralization
picking up speed**

5

**Democratization of
tech will raise
competitive
standards**

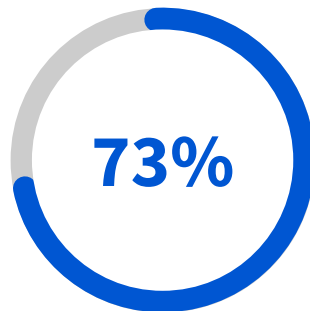
Companies play a critical role in **global reskilling**

WORLD
ECONOMIC
FORUM



of employers **plan to retrain existing employees** in response to shifting skill needs.

Deloitte.



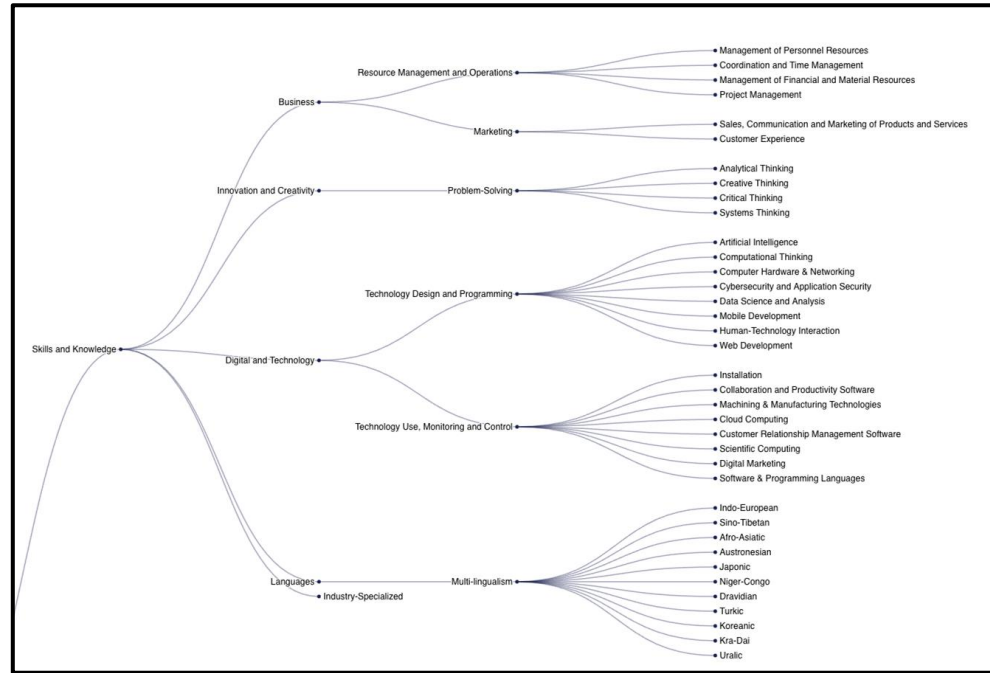
of individuals consider **employers responsible for workforce development**

Leaders who can map the right skills to people across the business enable digital transformations to succeed

Source: [McKinsey](#)

Coursera partnered with WEF and leaders from multinational Financial Services companies to create the **WEF Global Skills Taxonomy**

The Coursera skills development platform interoperates with the WEF Global Skills Taxonomy to help identify and build skills within businesses, governments and institutions



Source: [Building Common Language for Skills at Work A Global Taxonomy](#)

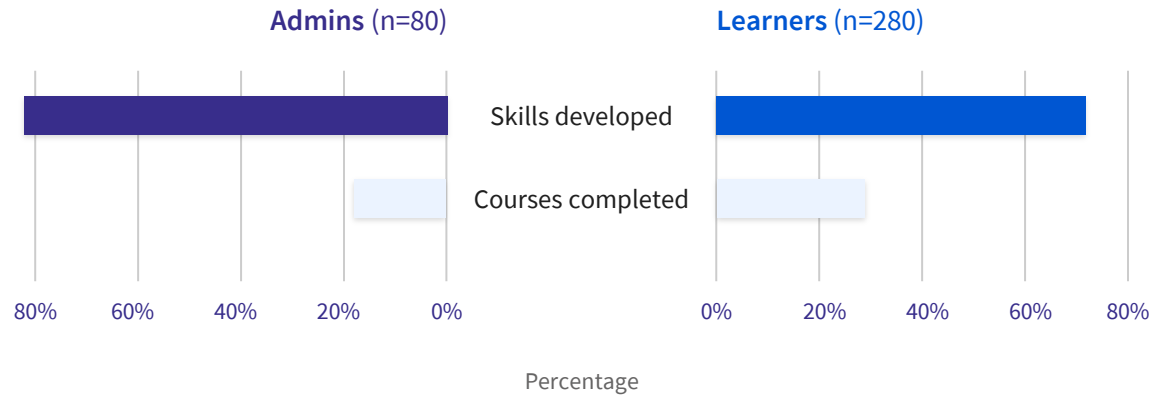
Evolution of Workplace Learning



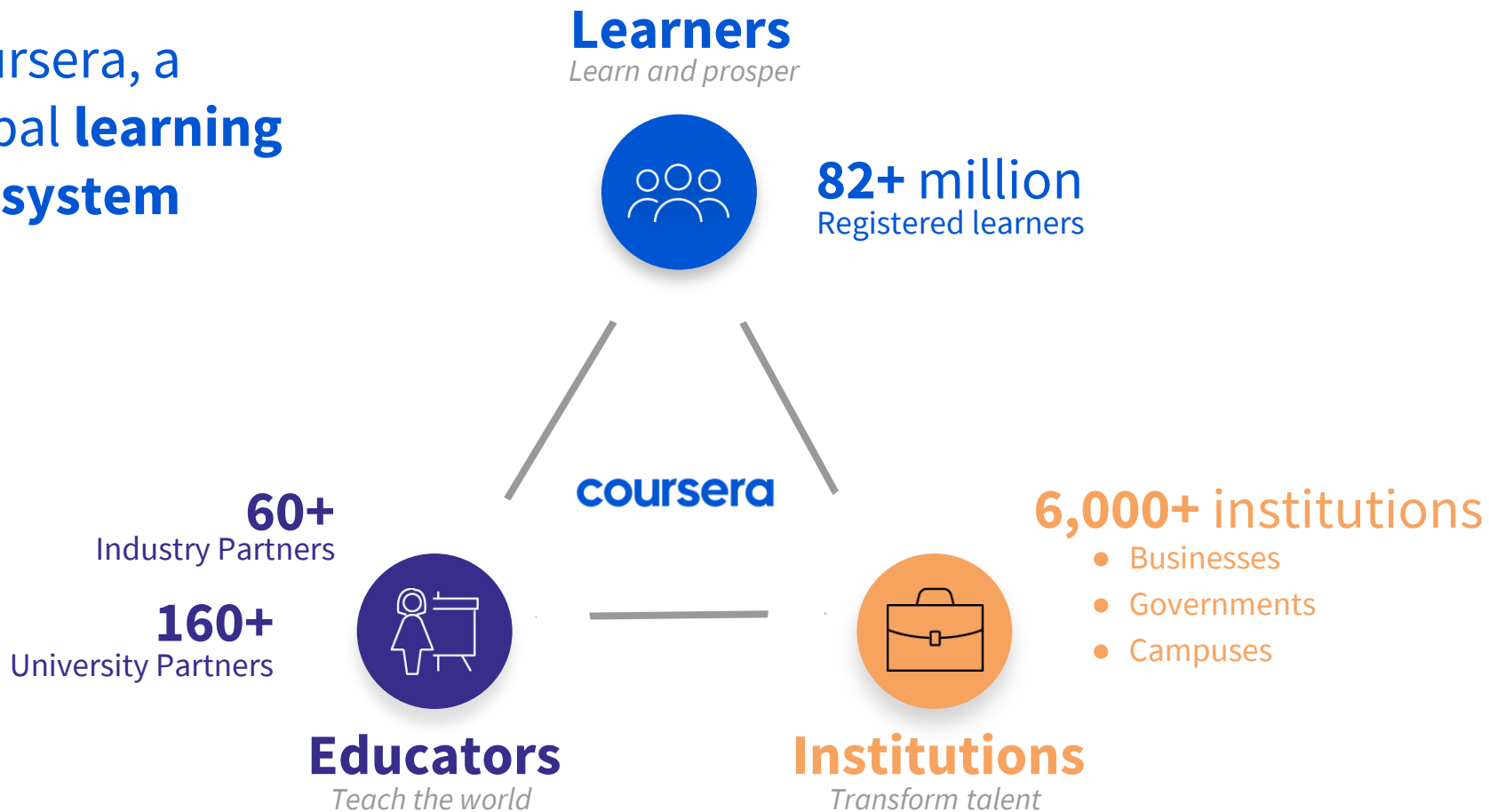
Employees want to demonstrate their skill proficiency

In user research conducted on Coursera users and admins in May 2020, a majority preferred earning credentials for skills versus course completions.

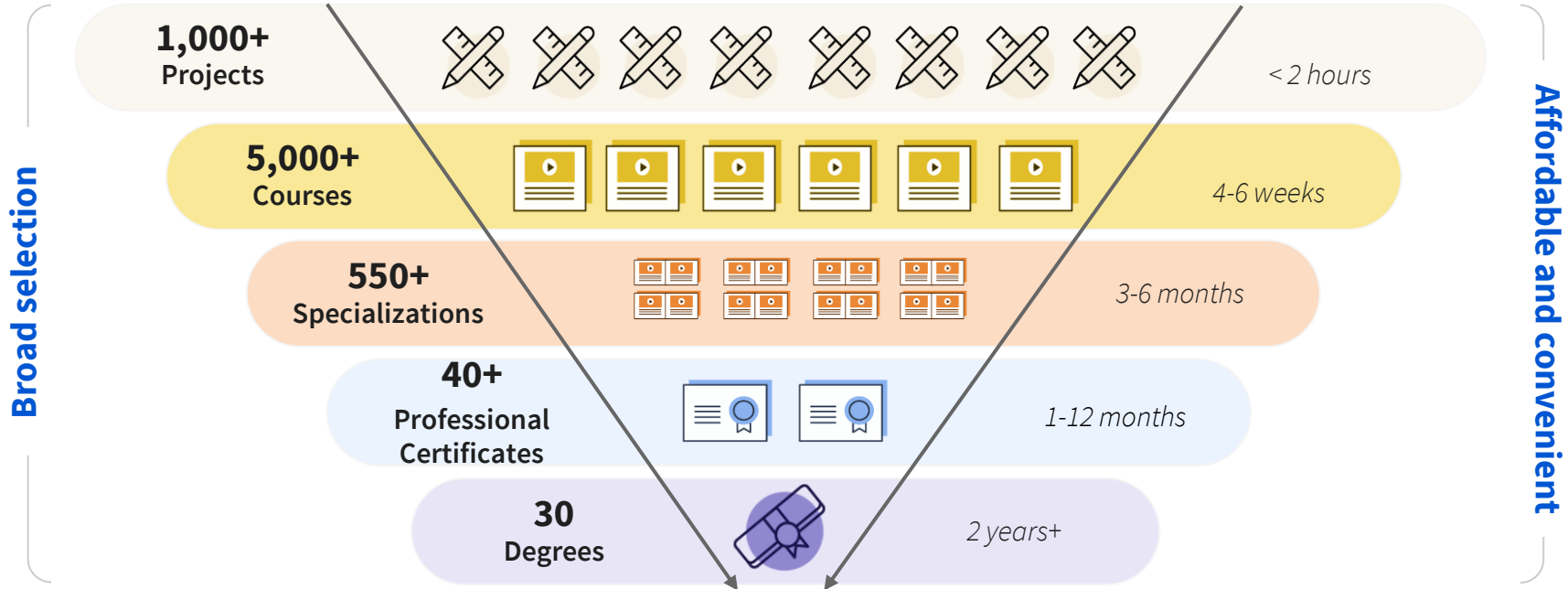
I would prefer [my employees] to earn a certificate based on:



Coursera, a global **learning ecosystem**



Robust catalog of **job-relevant** learning



Coursera trains on and measures the 7 priority skills areas identified by the WEF Industry Accelerators

Priority Skill Areas	SkillSets & Academies	Professional Certificates	Guided Projects
1. Automation Engineering		✓	✓
2. Cybersecurity	✓	✓	✓
3. Data Analytics	✓	✓	✓
4. Digital Marketing	✓	✓	✓
5. Machine Learning	✓	✓	✓
6. Scrum / Agile		✓	✓
7. UX Design		✓	✓

SkillSets match job roles, skills, and content

- Target SkillSets for any role
- SkillSets include target proficiency for each skill
- World-class content delivered to optimize skill development
- Coursera Labs delivers hands-on learning with job-relevant tools

The screenshot displays the 'Data Scientist' SkillSet page. At the top, a blue header features a star icon and the title 'Data Scientist'. Below this, a paragraph describes the role: 'Data Scientists deliver the analysis, modeling, and experimentation that inform product and business direction, empowering organizations to identify and deliver relevant products, mitigate risk and fraud, and improve internal operations. They also often develop algorithms to create personalized products and experiences to drive growth and innovation.' The Coursera logo is shown as the creator of the SkillSet.

To the right, a 'SkillSet Targets' section lists six skills with progress bars and target scores:

Skill	My Score	Target
Mathematics	100%	160
Statistical Programming	100%	160
Data Visualization	100%	60
Probability & Statistics	100%	160
Machine Learning	100%	60
Data Management	100%	60

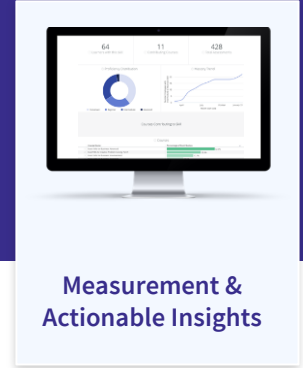
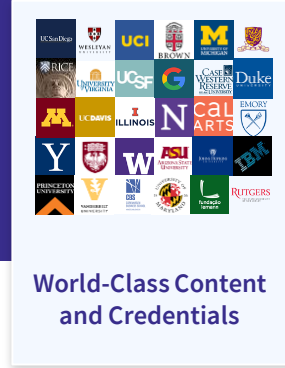
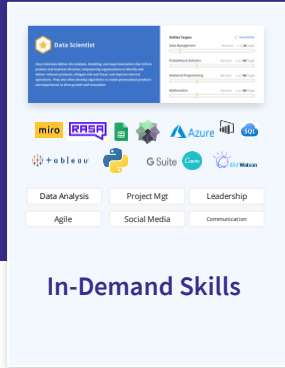
Below the SkillSet, 'Top recommendations for Mathematics' are shown. A yellow circle highlights the 'Using SQL String Functions to Clean Data' project by the Coursera Project Network. Other recommendations include 'Introduction to Calculus' by The University of Sydney, 'Data Science Math Skills' by Duke University, and 'Python for Data Science, AI & Development' by IBM.

Accelerate innovation and deliver excellence with high-impact skills

Skills-first Learning

Develop critical skills for critical roles

Learn more about how to use Coursera
to accelerate innovation and deliver
excellence with high-impact skills



PLATFORM CAPABILITIES DRIVE **SKILL DEVELOPMENT AT SCALE**



Transform your teams with high-impact skills

Skills-first Learning

Develop critical skills for critical roles

Learn more about how to use Coursera to accelerate innovation and deliver excellence with high-impact skills with Academies.



DATA & ANALYTICS ACADEMY

Empower everyone to be data-driven and AI-aware



CLOUD & IT ACADEMY

Take the next step in your digital transformation



SOFTWARE ENGINEERING ACADEMY

Meet customer demands for digital products and services



MARKETING ACADEMY

Supercharge growth and customer acquisition



FINANCE ACADEMY


Streamline company operations and sustain growth


BETA

ACADEMIES OFFER **TURNKEY, JOB-BASED LEARNING**

Launch transformative learning fast with SkillSets

SkillSets are job-based learning programs that build proficiency in critical skills

 **Reskill your talent** for in-demand data and analytics roles


 **Upskill data science and analytics team** with cutting-edge tools

 **Drive data literacy and AI awareness** across the entire org

**Pictured here is a subset of the SkillSets available in the Data & Analytics Academy*

Roles

 Data Scientist


 Machine Learning Engineer


 Data Engineer


 Data Analyst


Functions


Data Science & Engineering Teams


 SQL-Proficient Data Analyst

 Python-Proficient Data Scientist

 NLP Specialized Data Scientist

 AWS-Proficient ML Engineer

 Big Data Specialized Data Engineer

 TensorFlow-Proficient ML Engineer

Product & Marketing Teams


 Data-Driven Designer


 Data-Driven Marketer

 Data-Driven Product Mgr

Leaders & Executives

 Data Leader

 Data-Driven Sales Leader

 Data-Driven Leader

Everyone

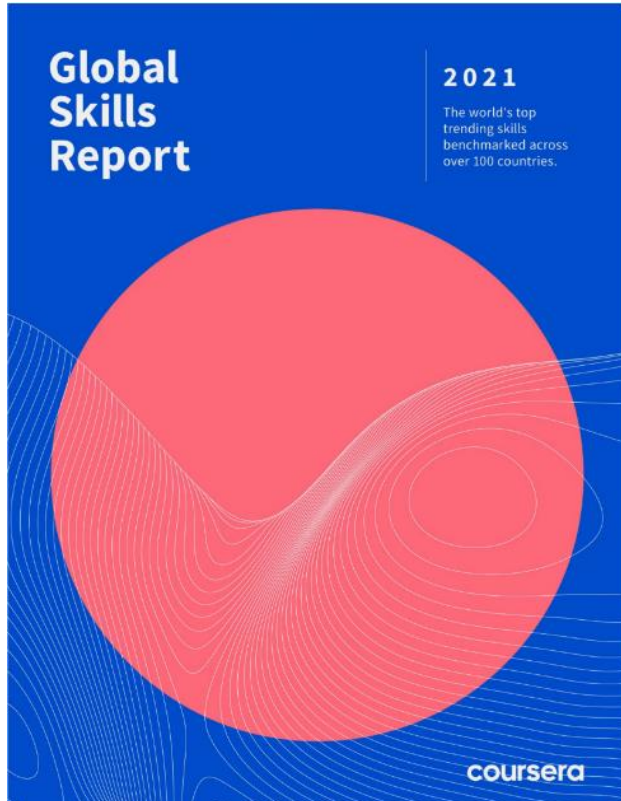
 Data-Driven Decision-Maker

 AI-Aware Professional

DATA & ANALYTICS ACADEMY

Q&A

NEW! The 2021 Global Skills Report



Gain insight into:

- Skills proficiency correlations with inequities exposed by COVID-19
- Each country's rank in essential skills across business, tech, and data science
- Trending skills in each region
- Skills of the future and resilient career pathways
- Download it now! coursera.org/gsr

Global Skills Index → Coursera Skills Report Series

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----- Coming Soon -----

September 2021



October 2021



Other Resources

Download
the **Essential Skills Playbook**



Discover trending skills
In your industry
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Contact us to learn more
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learning platform and meet
with a Skills Transformation
Consultant Today!

Email us at
business@coursera.org

For more information go to <https://www.coursera.org/business/>



Thank you