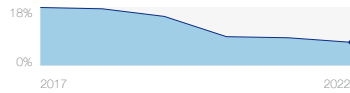# AI and big data

3rd

Skills, knowledge and abilities / Technology skills / AI and big data
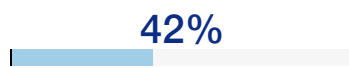
Global Skills Taxonomy ↗

Five year trend

Learning hours spent pursuing assessements and credentials in **AI and big data** from 2017 to 2022 (share of total learning hours). Source: Coursera.
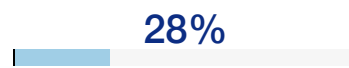
Reskilling focus

Companies for which **AI and big data** is a priority in their upskilling and reskilling programmes for 2023-2027 (share of companies surveyed)

Skill importance

Companies for which **AI and big data** is a core skill for workers (share of companies surveyed)

Skill evolution

Share of companies for which **AI and big data** is increasing or decreasing in importance at work. White diamond and label represent net share.

42%

28%

+60%

Jobs in focus

Roles where organizations surveyed report **AI and big data** to be increasing in importance fastest, alongside estimates of the net job growth (percent) from 2023 to 2027.

ROLES	NET GROWTH
1. Business Development Professionals	21%
2. Accounting, Bookkeeping and Payroll Clerks	-27%
3. Business Services and Administration Managers	-5%
4. Managing Directors and Chief Executives	-2%
5. Sales Representatives, Wholesale and Manufacturing, Technical…	0%
6. General and Operations Managers	0%
7. Assembly and Factory Workers	-6%

Time to skill

Learning hours required to achieve a credential in **AI and big data** at beginner, intermediate or advanced proficiency as a function of the learner's level of formal education.

Hours 0 ▬▬▬▬▬ 34

FORMAL EDUCATION BACKGROUND	BEGINNER	INTERMEDIATE	ADVANCED
All	4.9	17.9	30.0
No Bachelor's Degree	4.4	16.9	26.2
Bachelor's Degree	5.0	18.7	32.1
Graduate Degree	5.2	21.0	34.0

Strategically adjacent skills

Probability that a company which will prioritise skills training in **AI and big data** from 2023 to 2027 will also prioritise other skills.

Skill taxonomy ■ Skills, knowledge and abilities ■ Attitudes

Analytical thinking	50%
Creative thinking	45%
Leadership and social influence	35%
Design and user experience	35%
Technological literacy	32%
Resilience, flexibility and agility	32%
Curiosity and lifelong learning	30%
Networks and cybersecurity	30%
Talent management	28%
Service orientation and customer service	25%

Simultaneous skill development

Probability that courses in **AI and big data** also teach other skills. Source: Coursera.

Skill taxonomy ■ Skills, knowledge and abilities ■ Attitudes

Programming	55%
Analytical thinking	42%
Reading, writing and mathematics	38%
Networks and cybersecurity	37%
Design and user experience	34%
Resource management and operations	31%
Technological literacy	26%
Marketing and media	17%
Empathy and active listening	16%
Creative thinking	16%

Industry trends

Industry-by-industry variations in reskilling focus, current and future importance, forecast evolution in importance, and strategic focus companies will place on **AI and big data** from 2023 to 2027 for the industries which assign the highest and lowest reskilling focus to this skill (share of companies surveyed)

■ Above global mean ■ Below global mean

INDUSTRY	RESKILLING FOCUS	SKILL IMPORTANCE	SKILL EVOLUTION
Insurance and pensions management			
Media, Entertainment and Sports			
Information and technology services			
Government and public sector			
Agriculture, forestry, and fishing			
Accommodation, Food, and Leisure			