Construction performance EC-Council CERTNEXUS Construction performance CERTNEXUS

Al and Cybersecurity in the Reskilling and Upskilling Revolution

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SKILLS OF THE FUTURE Al and Cybersecurity in the Reskilling and Upskilling Revolution

Digital is the main reason just over half of the companies on the Fortune 500 have disappeared since the year 2000

Pierre Nanterme CEO of Accenture aei.org https://www.aei.org > fortune... • Terjemahkan halaman ini

Fortune 500 Firms 1955 V. 2016: Only 12% Remain, Thanks ...

13 Des 2016 — In other words, only **12**% (and fewer than 1 in 8) of the Fortune 500 companies in 1955 were still on the list 61 years later in 2016, ...

·ONGLEAT fortune.com https://partneredcontent.fortun... · Terjemahkan halaman ini

Age of disruption | Fortune

Only twelve percent of the Fortune 500 companies who were in business in 1955 are still around. Before stepping down as CEO of Cisco Systems in June of 2015 ...



1990 Full list	Current View: 1-100	
Rank Company	Revenues (\$ millions)	Pr (\$ milli
1 General Motors	126,974.3	4,22
2 Ford Motor	96,932.6	3,83
3 Exxon Mobil	86,656.0	3,51
4 Intl. Business Machines	63,438.0	3,75
5 General Electric	55,264.0	3,93
6 Mobil	50,976.0	1,80
7 Altria Group	39,069.0	2,94
8 Chrysler	36,156.0	35
9 DuPont	35,209.0	2,48
10 Texaco	32,416.0	2,41
11 ChevronTexaco	29,443.0	25
12 Amoco	24,214.0	1,61
13 Shell Oil	21,703.0	1,40
14 Procter & Gamble	21,689.0	1,20
15 Boeing	20,276.0	97
16 Occidental Petroleum	20,068.0	28
17 United Technologies	19,765.5	70
18 Eastman Kodak	18,546.0	52
19 Marathon Oil	17,755.0	96
20 Dow Chemical	17,730.0	2,48

101 10 1000

2000 Full list		Current	Current View: 1-100 📀	
Rank	Company	Revenues (\$ millions)	Profits (\$ millions)	
1	General Motors	189,058.0	6,002.0	
2	Wal-Mart Stores	166,809.0	5,377.0	
3	Exxon Mobil	163,881.0	7,910.0	
4	Ford Motor	162,558.0	7,237.0	
5	General Electric	111,630.0	10,717.0	
6	Intl. Business Machines	87,548.0	7,712.0	
7	Citigroup	82,005.0	9,867.0	
8	AT&T	62,391.0	3,428.0	
9	Altria Group	61,751.0	7,675.0	
10	Boeing	57,993.0	2,309.0	
11	Bank of America Corp.	51,392.0	7,882.0	
12	SBC Communications	49,489.0	8,159.0	
13	Hewlett-Packard	48,253.0	3,491.0	
14	Kroger	45,351.6	955.9	
15	State Farm Insurance Cos	44,637.2	1,034.1	
16	Sears Roebuck	41,071.0	1,453.0	
17	Hewlett-Packard Kroger State Farm Insurance Cos Sears Roebuck American Intl. Group Enron TIAA-CREF	40,656.1	5,055.4	
18	Enron	40,112.0	893.0	
19	TIAA-CREF	39,410.2	1,024.1	
20	Compaq Computer	38,525.0	569.0	



Al and Cybersecurity in the Reskilling and Upskilling Revolution

2022 Rank	Company	Market Capitalization	Sector	Location	
1	Apple	\$2.3T	Technology	J.S.	
2	Microsoft	\$1.9T	Technology	J.S.	
3	Saudi Aramco	\$1.8T	Energy	飅 Saudi Arabia	
4	Alphabet	\$1.2T	Technology	J.S.	
5	Amazon	\$924B	Consumer Discretionary	J.S.	
6	Berkshire Hathaway	\$686B	Financials	J.S.	
7	Tesla	\$522B	Consumer Discretionary	J.S.	
8	UnitedHealth Group	\$510B	Health Care	J.S.	
9	Johnson & Johnson	\$465B	Health Care	J.S.	
10	Visa	\$454B	Industrials	📁 U.S.	
Showing 1 to 10 of 100 entries *As of Dec 12, 2022.					

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204.7

*2022

*As of january 2022

202.6

GROWTH OF DIGITAL ECONOMY

Al and Cybersecurity in the Reskilling and Upskilling Revolution

FUT

Indonesia's Digital Economy Value GMV, in US\$ Billion in Million 175.4 150.0 132.7 Source: Google, Temasek and Bain, e-Conomy SEA 2022 Source: We Are Social, Databoks (2022)

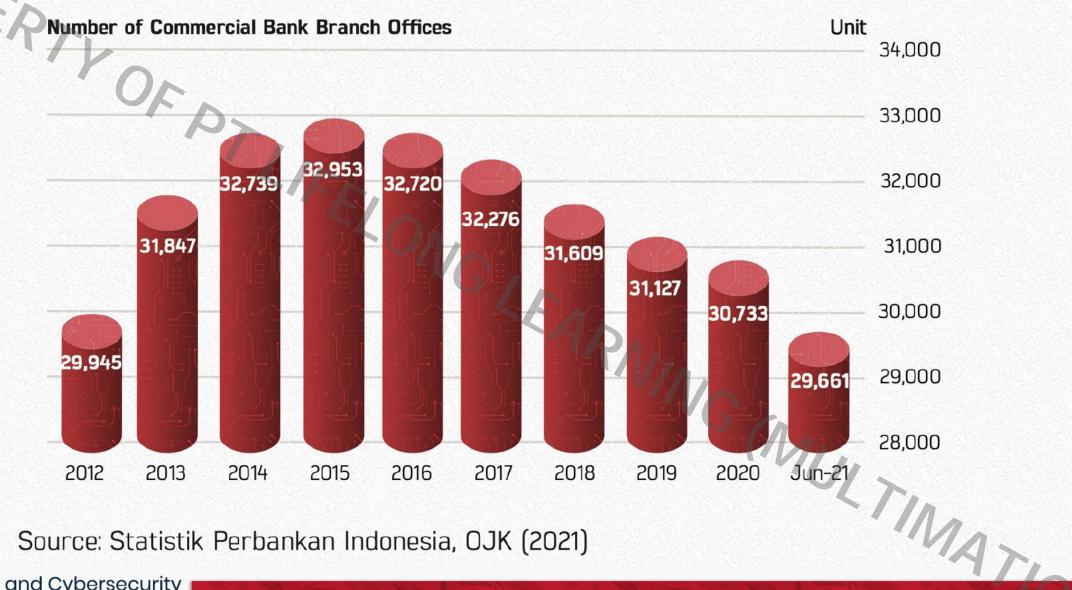
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DIGITAL ECONOMY Aktivitas pembaruan proses bisnis, model bisnis, dan instrumen keuangan yang memberikan nilai tambah baru di sektor jasa keuangan dengan melibatkan NG MULTINA ekosistem digital. OJK

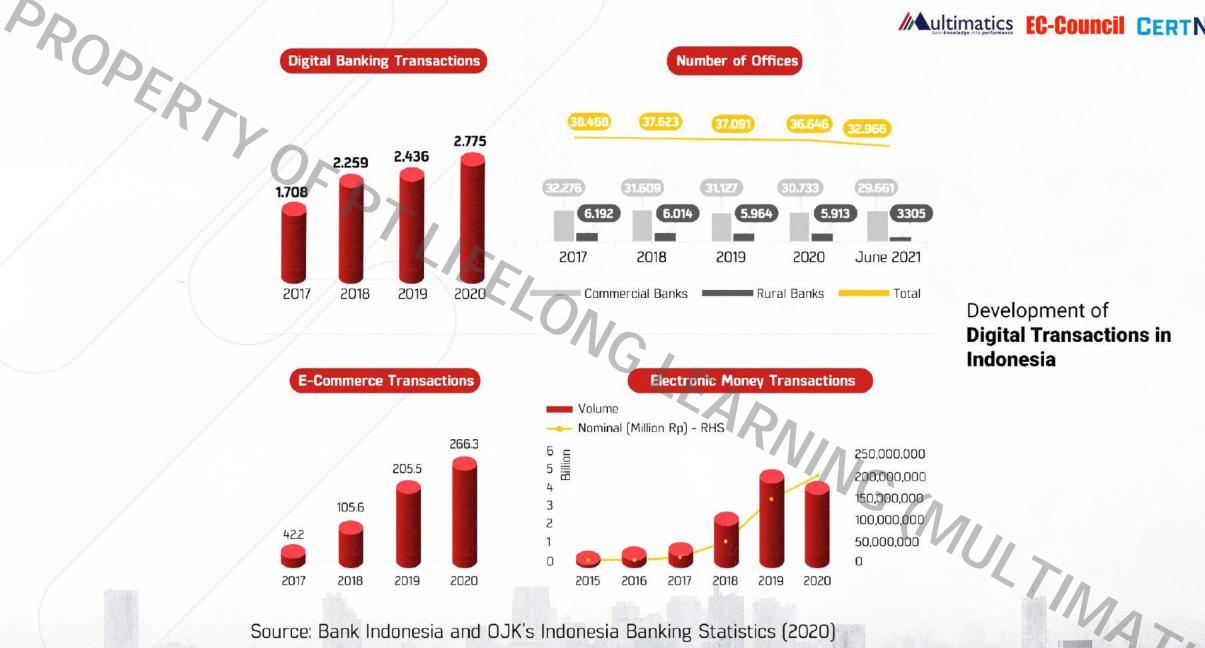


Introduction



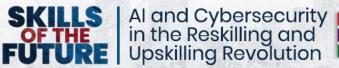
Source: Statistik Perbankan Indonesia, OJK (2021)





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Source: Bank Indonesia and OJK's Indonesia Banking Statistics (2020)

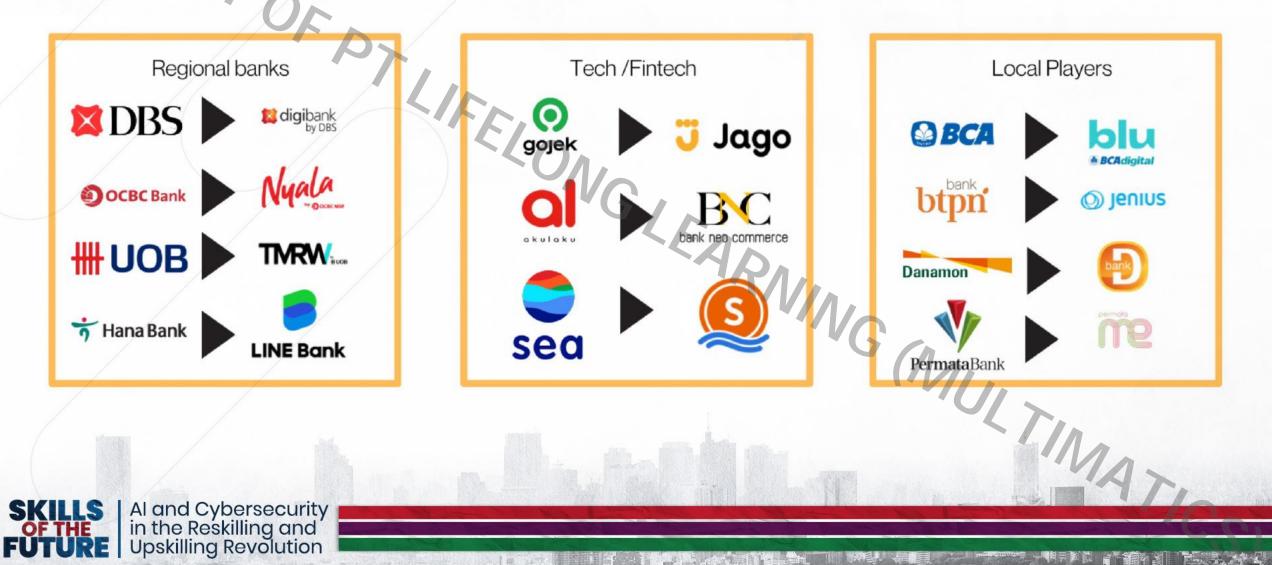


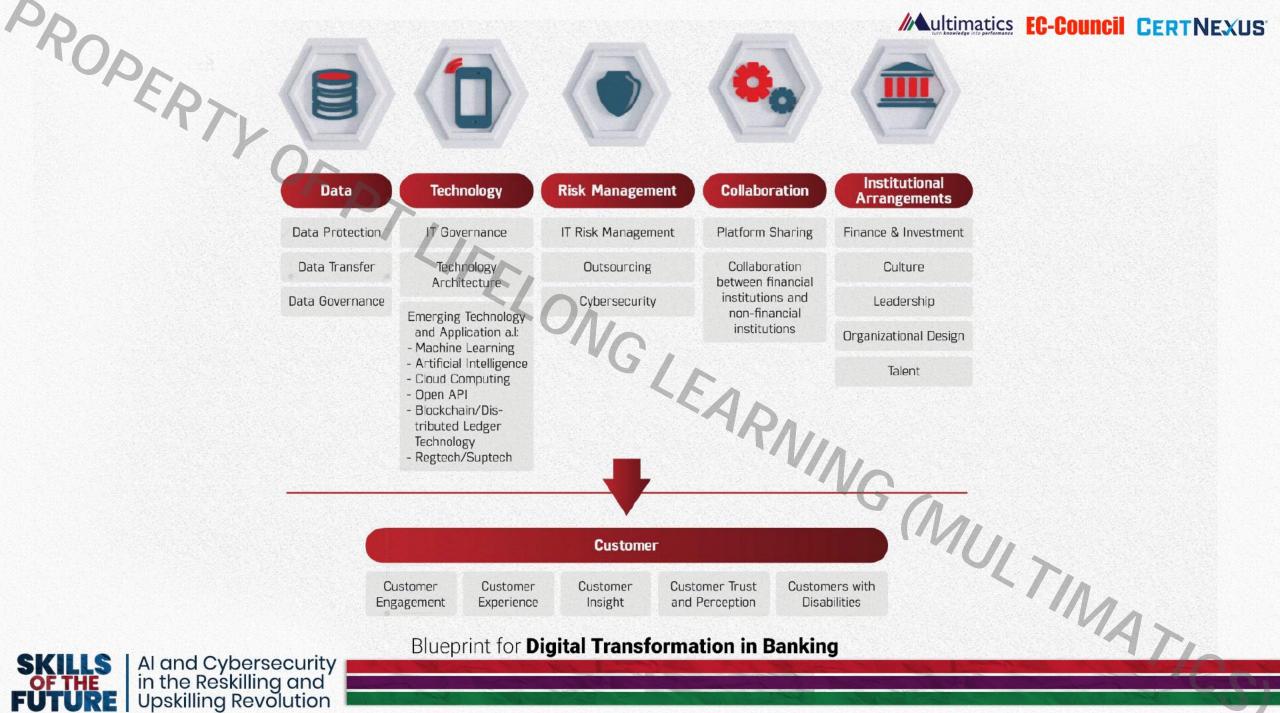
FINTECH DIGITAL SOLUTION





INDONESIAN DIGITAL BANK

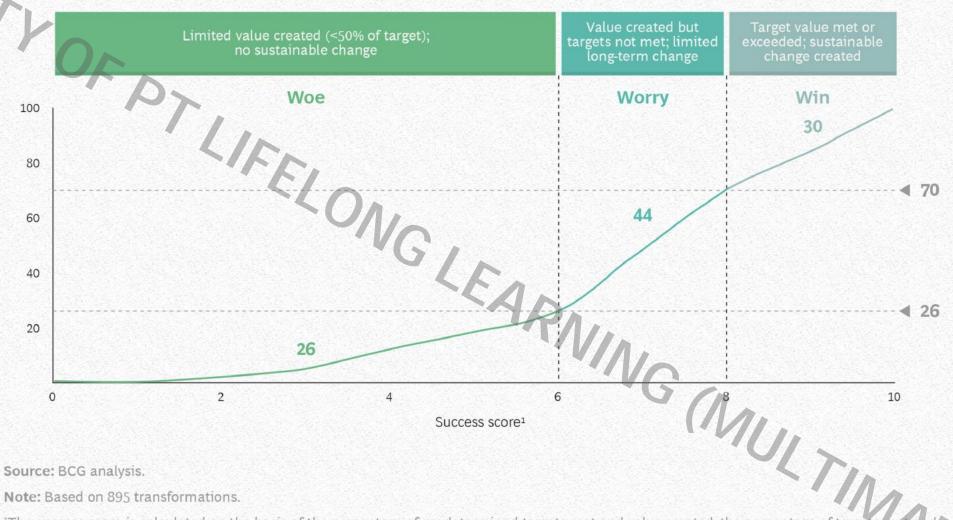




ultimatics Exhibit 1 - Only 30% of Digital Transformations Are Successful



Share of transformations (%)



Note: Based on 895 transformations.

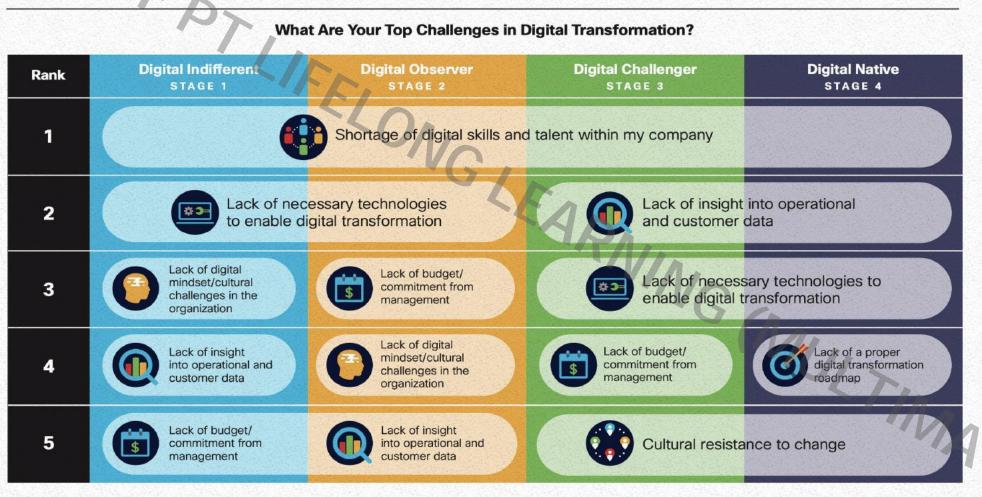
¹The success score is calculated on the basis of the percentage of predetermined targets met and value created, the percentage of targets met and value created on time, the success relative to other transformations, and the success relative to management's aspirations for sustainable change.





Top Challenges by Digital Maturity

Struggling to fill the talent gap is a challenge for all SMBs, regardless of their size and digital maturity. SMB digital followers (Digital Indifferent and Digital Observers) see the lack of necessary technologies, digital mindset, and budget commitment as major obstacles. Digital leaders are not without similar challenges in terms of access to the right technologies and insight into operational and customer data.



STLIFELONG LE PART 2 THE FUTURE SKILLS

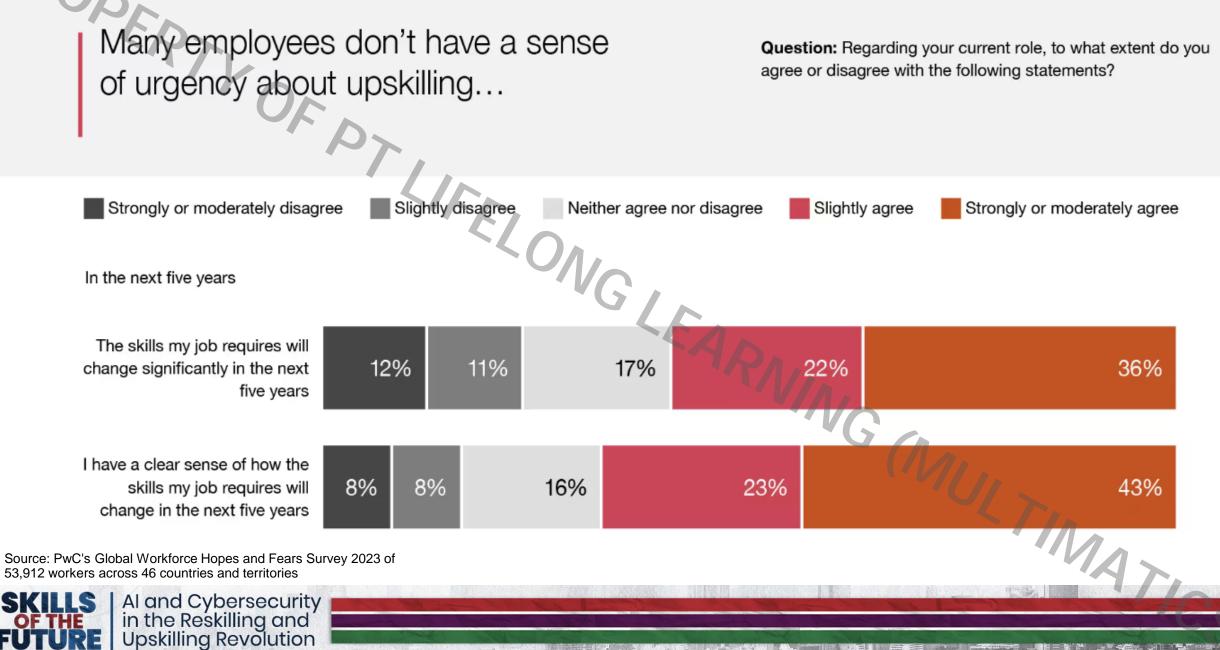
SKILLS OF THE FUTURE AI and Cybersecurity in the Reskilling and Upskilling Revolution

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THE WORLD OF WORK IS CHANGING – AND SOME JOBS ARE CHANGING FASTER THAN OTHERS.

WE'LL ONLY BE AS GOOD AS THE SKILLS WE POSSESS. BUT WHICH SKILLS ARE THEY, AND HOW CAN WE MAKE SURE WE KEEP PACE?

PD		
ASPECT	UPSKILLING	RESKILLING
Definition	Enhancing and expanding an employee's current skill set.	Significant shifts in job requirements , technological changes, or the obsolescence of certain roles.
Purpose	To improve and update skills for the same or more advanced roles within the same field.	To equip employees for a completely different job function within the organization.
Driven by	Technological advancements , changing industry standards, and the need for advanced competencies in existing roles.	Significant shifts in job requirements, technological changes, or the obsolescence of certain roles.
Focus	Building upon and refining skills that employees already possess.	Introducing entirely new skill sets unrelated to the employee's current role
Example	A software engineer learning new programming languages or advanced development methodologies.	A customer service representative being trained for a role in data analysis.
Outcome	Employees are better equipped to handle more complex tasks in their current or similar roles.	Employees become capable of transitioning to different roles within the organization, ensuring adaptability and employability.
		C'S)



TECHNOLOGY ADOPTION, 2023-2027

86.4% 80.9% 80.0% 76.8% 76.6% 75.6% 75.3% 74.9% 64.5% 62.8% 61.8% 59.1% 52.1% 51.5% 51.3% 20 60 0 Share of respondents (%)

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Digital platforms and apps Education and workforce development technologies **Big-data analytics** Internet of things and connected devices Cloud computing Encryption and cybersecurity E-commerce and digital trade Artificial intelligence Environmental management technologies Climate-change mitigation technology Text, image, and voice processing Augmented and virtual reality Power storage and generation Electric and autonomous vehicles Robots, non-humanoid

Source: The Future of Jobs Report, World Economic Forum, 2023

Al and Cybersecurity in the Reskilling and Upskilling Revolution



LARGEST JOB DECLINE

Source: The Future of Jobs Report, World Economic Forum, 2023

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Al and Cybersecurity in the Reskilling and Upskilling Revolution

International EC-Council CERTNEXUS

Data entry clerks Administrative and executive secretaries Accounting, bookkeeping and payroll clerks Security guards Building caretakers and housekeepers Cashiers and ticket clerks Material-recording and stock-keeping clerks Assembly and factory workers Postal service clerks Bank tellers and related clerks Shop salespersons Telemarketers Client information and customer service workers Business services and administration managers Door-to-door sales workers, news and street vendors, and related workers

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NEW JOBS AND LOST JOBS, 2023-2027

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Compliance Officers Accountants and Auditors Telemarketers Client Information and Customer Service Workers Social Media Strategist Insurance Underwriters Building Caretakers and Housekeepers Shop Salespersons **Relationship Managers** Software testers Claims Adjusters, Examiners, and Investigators Credit and Loans Officers Security Guards Door-To-Door Sales Workers, News and Street ... Statistical, Finance and Insurance Clerks Legislators and Officials Home Appliance Installers and Repairers \diamond Accounting, Bookkeeping and Payroll Clerks \diamond Material-Recording and Stock-Keeping Clerks \Diamond Administrative and Executive Secretaries \diamond Data Entry Clerks \diamond Cashiers and Ticket Clerks Postal Service Clerks Bank Tellers and Related Clerks

Al and Machine Learning Specialists Sustainability Specialists **Business Intelligence Analysts** Information Security Analysts FinTech Engineers Data Analysts and Scientists **Robotics Engineers Big Data Specialists** Agricultural Equipment Operators **Digital Transformation Specialists** Blockchain Developers E-commerce Specialists Digital Marketing and Strategy Specialists Data Engineers Commercial and Industrial Designers **Business Development Professionals Devops Engineers Database Architects Process Automation Specialists** Software and Applications Developers **Risk Management Specialists** Building Frame and Related Trades Workers **Technical Specialists** Database and Network Professionals **Application Developers Project Managers**

Al and Cybersecurity in the Reskilling and Upskilling Revolution

Source: The Future of Jobs Report, World Economic Forum, 2023



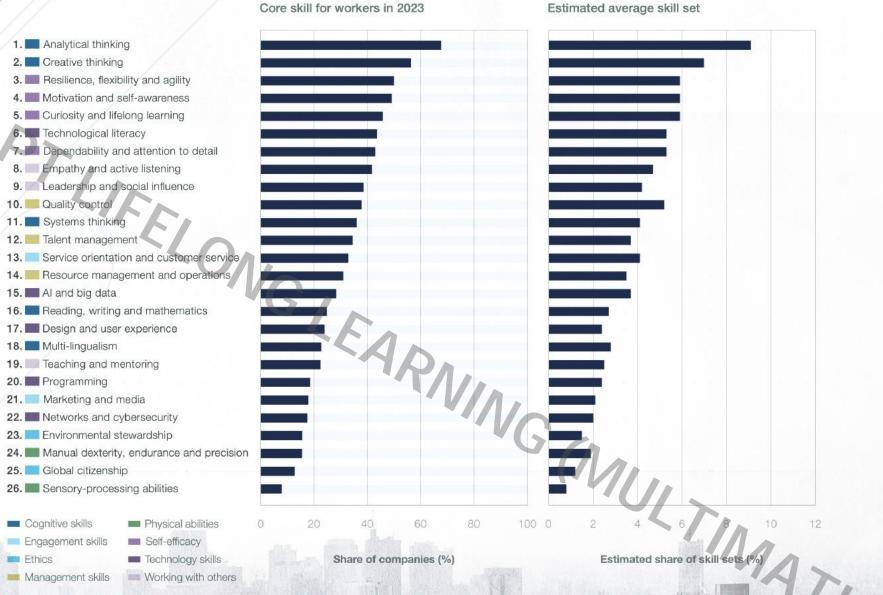
RESKILLING FOCUS, 2023-2027

Source: The Future of Jobs Report, World Economic Forum, 2023



Al and Cybersecurity in the Reskilling and Upskilling Revolution

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SKILLS ON THE RISE, 2023-2027

Source: The Future of Jobs Report, World Economic Forum, 2023

Al and Cybersecurity in the Reskilling and Upskilling Revolution

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Al for Consumer Purposes Al for Consumer Purposes EARNING MULTIMAT

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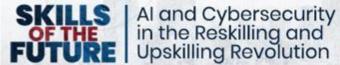
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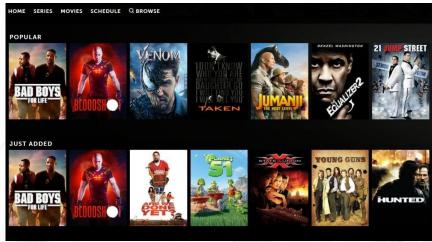
1. Virtual Personal Assistants

Virtual personal assistants like Apple's Siri, Amazon's Alexa, Google Assistant, and Microsoft's Cortana utilize AI algorithms to understand natural language queries and perform tasks such as setting reminders, answering questions, providing recommendations, and controlling smart home devices. "Alexa" "OK Google" "Hey Siri"

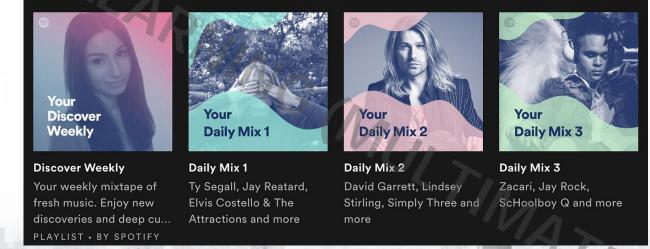


2. Recommendation Systems

Recommendation systems are widely used by online platforms to personalize content and product recommendations for users. Examples include Netflix's recommendation engine for suggesting movies and TV shows, Amazon's product recommendation system, and Spotify's music recommendation algorithms.



Al and Cybersecurity in the Reskilling and Upskilling Revolution



3. Chatbots

Chatbots leverage natural language processing (NLP) and machine learning algorithms to engage in text-based conversations with users. They are used in various consumer-facing applications, including customer service, e-commerce, and online support systems.



4. E-commerce Personalization

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Friendship Dack (10 F

Borry Blizzard Dack

E-commerce platforms utilize AI to personalize the shopping experience for users by analyzing browsing behavior, purchase history, and demographic information to provide tailored product recommendations, discounts, and promotions.

Ku'ulei Pack

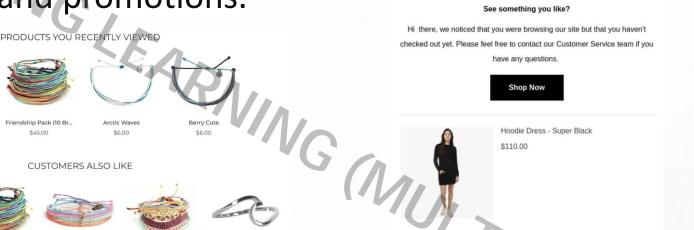
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SKILLS OF THE FUTURE Al and Cybersecurity in the Reskilling and Upskilling Revolution

5. Health and Fitness Apps

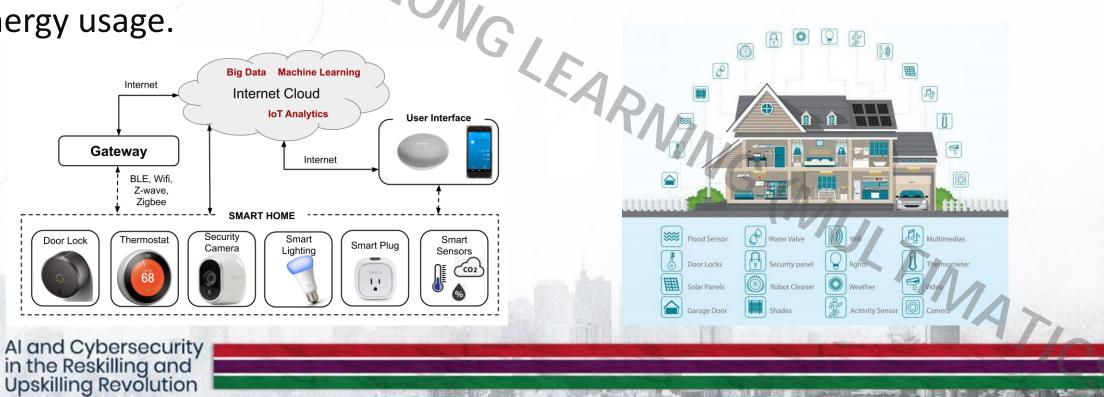
Al and Cybersecurity in the Reskilling and Upskilling Revolution

Health and fitness apps often incorporate AI features such as activity tracking, personalized workout plans, and dietary recommendations based on user preferences, health goals, and biometric data.



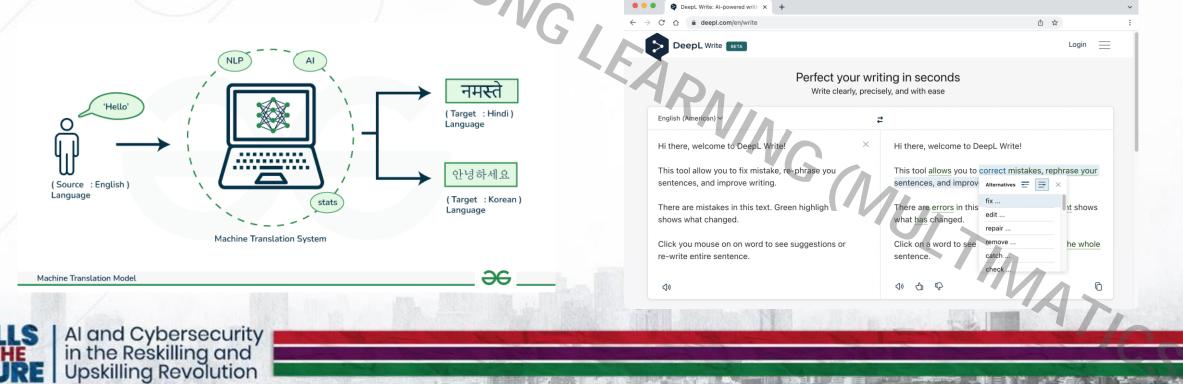
6. Smart Home Devices

Al-powered smart home devices, including smart speakers, thermostats, security cameras, and appliances, use machine learning algorithms to automate tasks, learn user preferences, and optimize energy usage.



7. Language Translation Services

Language translation services like Google Translate and Microsoft Translator leverage AI and machine learning techniques to provide realtime translation of text and speech across multiple languages.



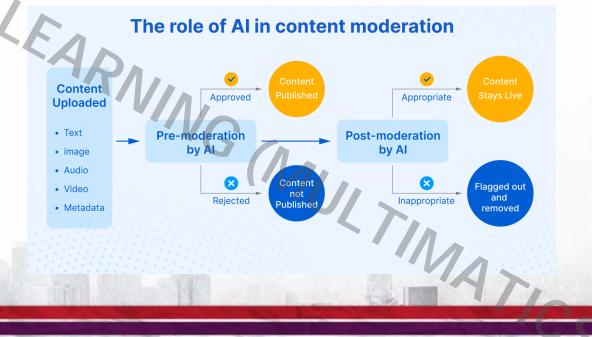
8. Social Media Content Moderation

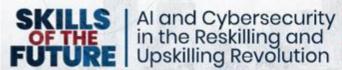
Social media platforms use AI algorithms to automatically detect and moderate content that violates community guidelines, including hate speech, harassment, and graphic imagery.

How can AI content moderation help brands?

- 😔 Curate on-brand images
- Sensure the accuracy of information
- Screen organic product reviews
- Safeguard publicity campaigns
- Silter images on account creation







9. Personal Finance Apps

Al-driven personal finance apps analyze users' spending habits, income, and financial goals to provide personalized financial advice, budgeting tools, and investment recommendations.



10. Augmented Reality (AR) and Virtual Reality (VR) Experiences

Al is used in AR and VR applications to create immersive and interactive experiences for consumers, including gaming, virtual tours, shopping experiences, and educational content.

How do AR and VR differ?

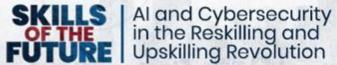


Augmented reality uses the existing real-world environment and puts virtual information on top of it to create a sort of mixed reality.



Virtual reality uses technology such as a headset to create an immersive 3D simulated environment.





Al for Fintech Purposes

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1. Fraud Detection and Prevention

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Al algorithms analyze large volumes of transaction data in real-time to detect patterns and anomalies that may indicate fraudulent activity. By identifying suspicious transactions or behaviors, Al helps financial institutions prevent fraud and protect customers' accounts.

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2. Credit Scoring and Risk Assessment

Al-powered credit scoring models use machine learning algorithms to assess the creditworthiness of individuals and businesses based on various factors such as credit history, income, and repayment behavior. These models enable lenders to make more accurate and data-driven lending decisions, reducing the risk of default and improving loan approval rates.

Multimatics EC-Council CERTNEXUS

May cluster individuals

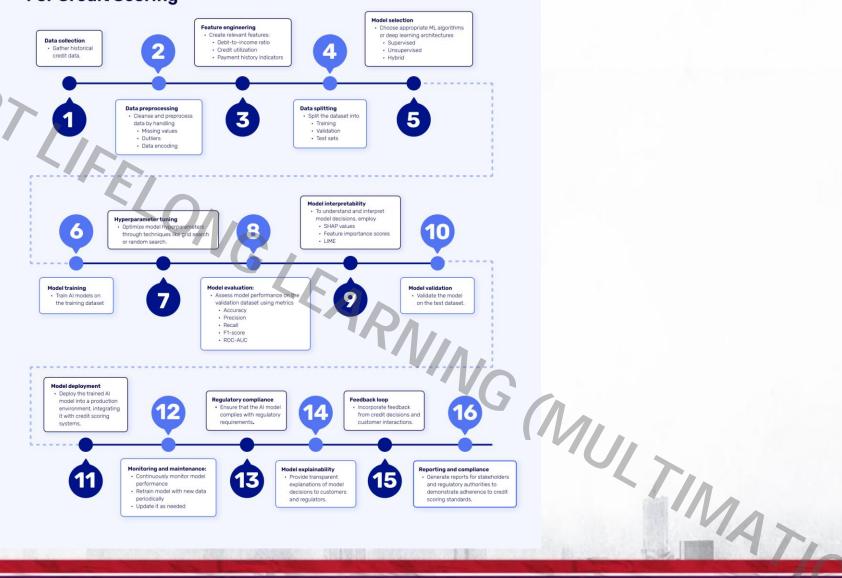
based on transaction



Steps Involved In Training Al Models For Credit Scoring

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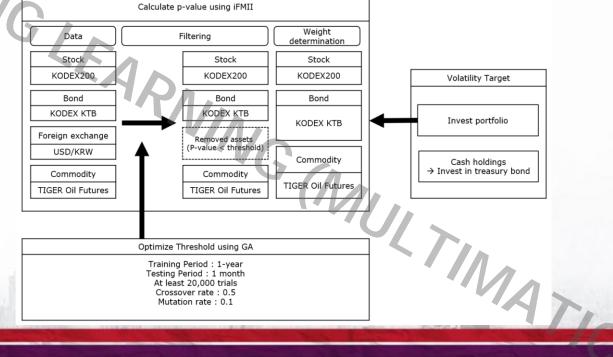
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3. Algorithmic Trading

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Al algorithms analyze market data, news articles, social media sentiment, and other relevant information to identify trading opportunities and execute trades automatically. Algorithmic trading systems can react to market changes much faster than human traders, enabling financial institutions to capitalize on price movements and minimize trading risks.



4. Customer Service and Support

~RC

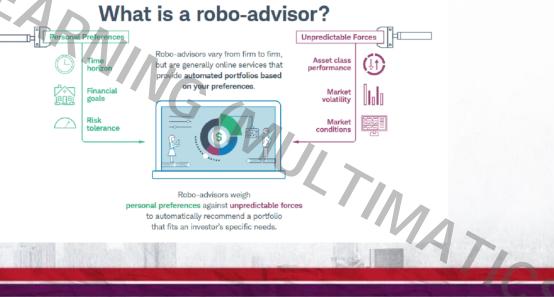
Al-powered chatbots and virtual assistants are used by fintech companies to provide personalized customer service and support. These virtual agents can answer common queries, assist with account management, and help users navigate financial products and services through natural language conversations.



5. Personalized Financial Advice

Al and Cybersecurity in the Reskilling and Upskilling Revolution

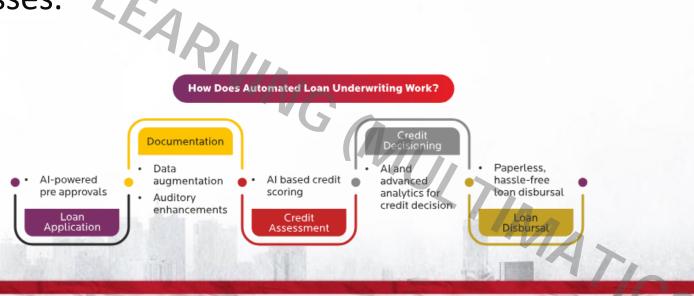
Al-driven robo-advisors analyze users' financial goals, risk tolerance, and investment preferences to provide personalized investment advice and portfolio recommendations. Robo-advisors automate the investment process, making it more accessible and affordable for retail investors to manage their portfolios.

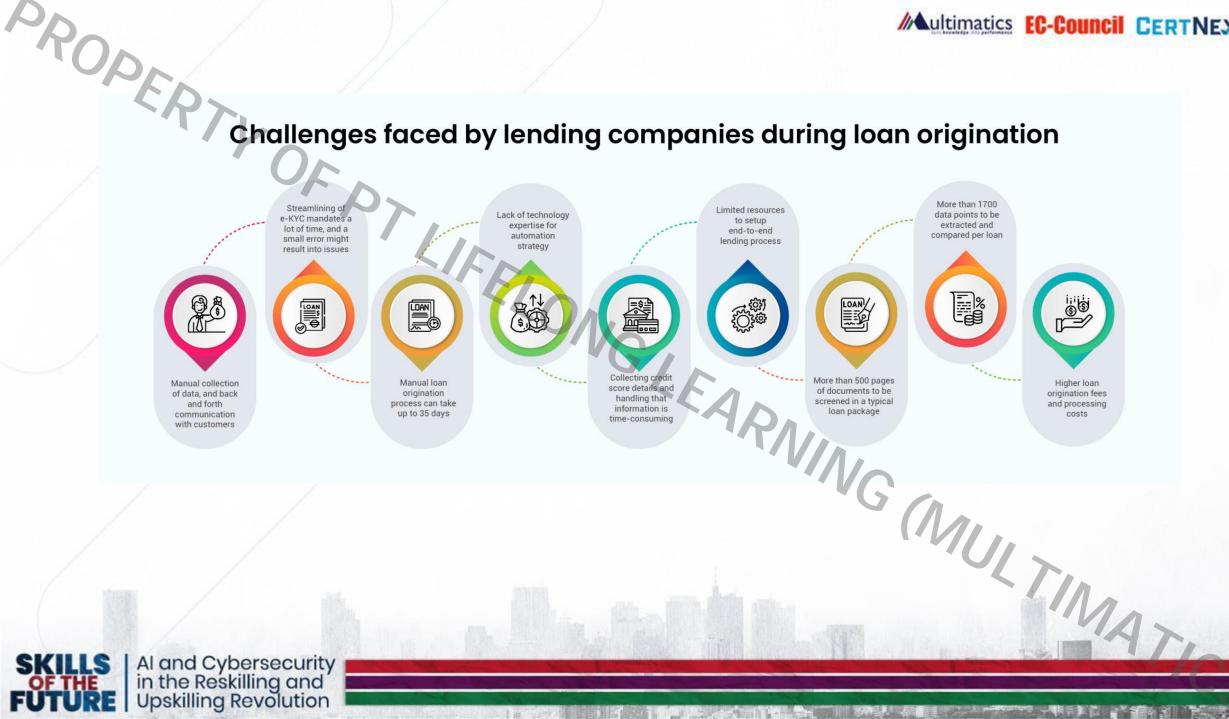


6. Underwriting and Loan Origination

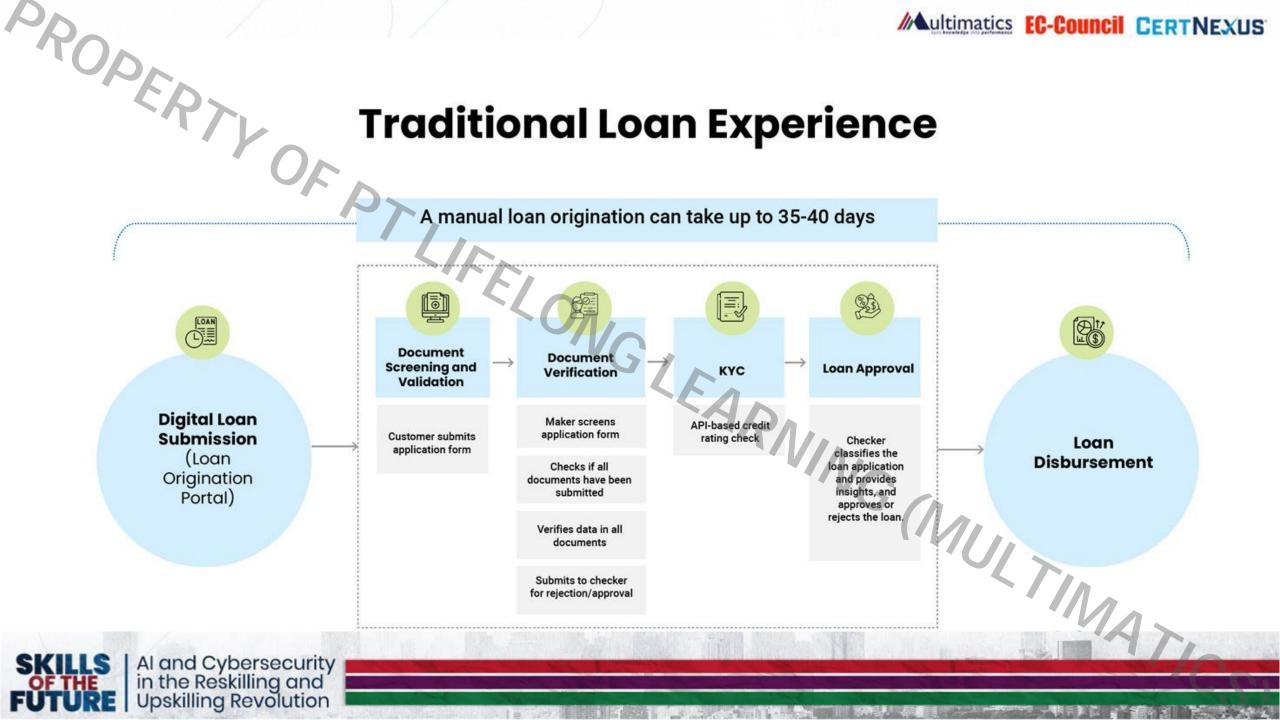
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Al algorithms streamline the underwriting and loan origination process by automating data collection, analysis, and decision-making. These algorithms assess borrowers' creditworthiness, evaluate loan applications, and determine loan terms and conditions more efficiently than traditional manual processes.





Traditional Loan Experience

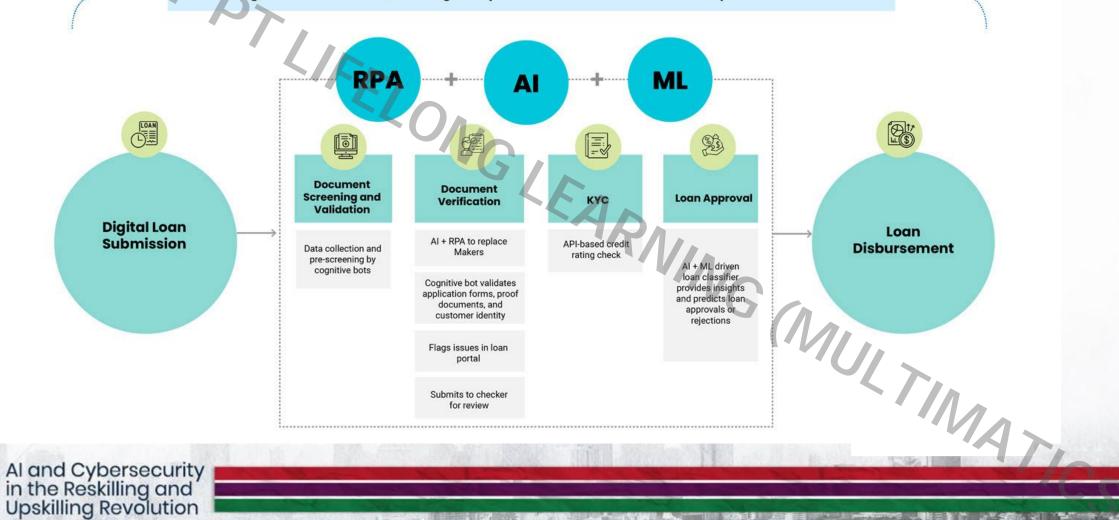


Cognitive Lending Experience

PROPERTY

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With cognitive automation, lending companies take 80% lesser time to process new loans



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7. Compliance and Regulatory Reporting

Al technologies help financial institutions comply with regulatory requirements and reporting obligations by automating compliance tasks, monitoring transactions for suspicious activities, and generating regulatory reports. Al-powered compliance solutions improve accuracy, reduce compliance costs, and mitigate the risk of regulatory violations. eris.



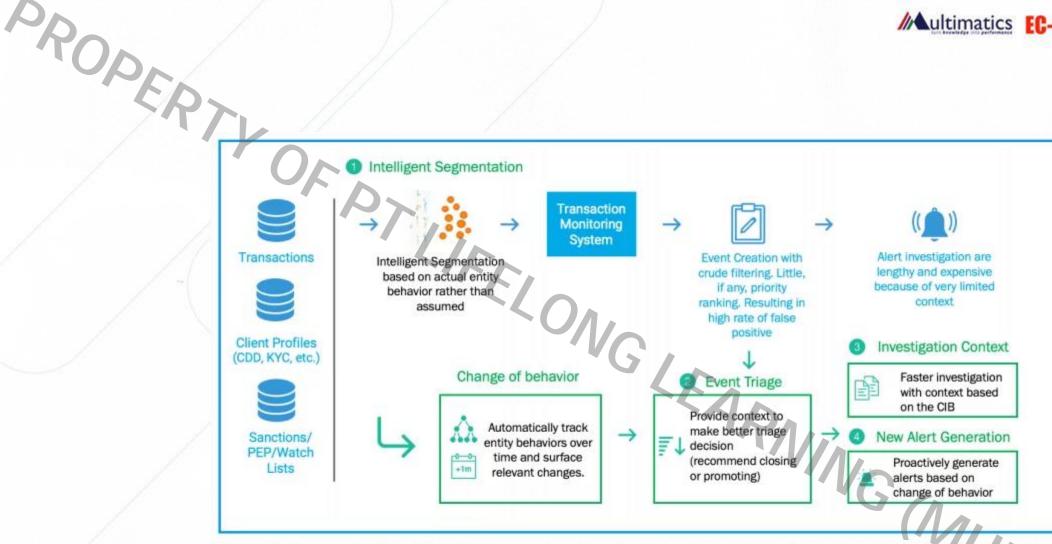
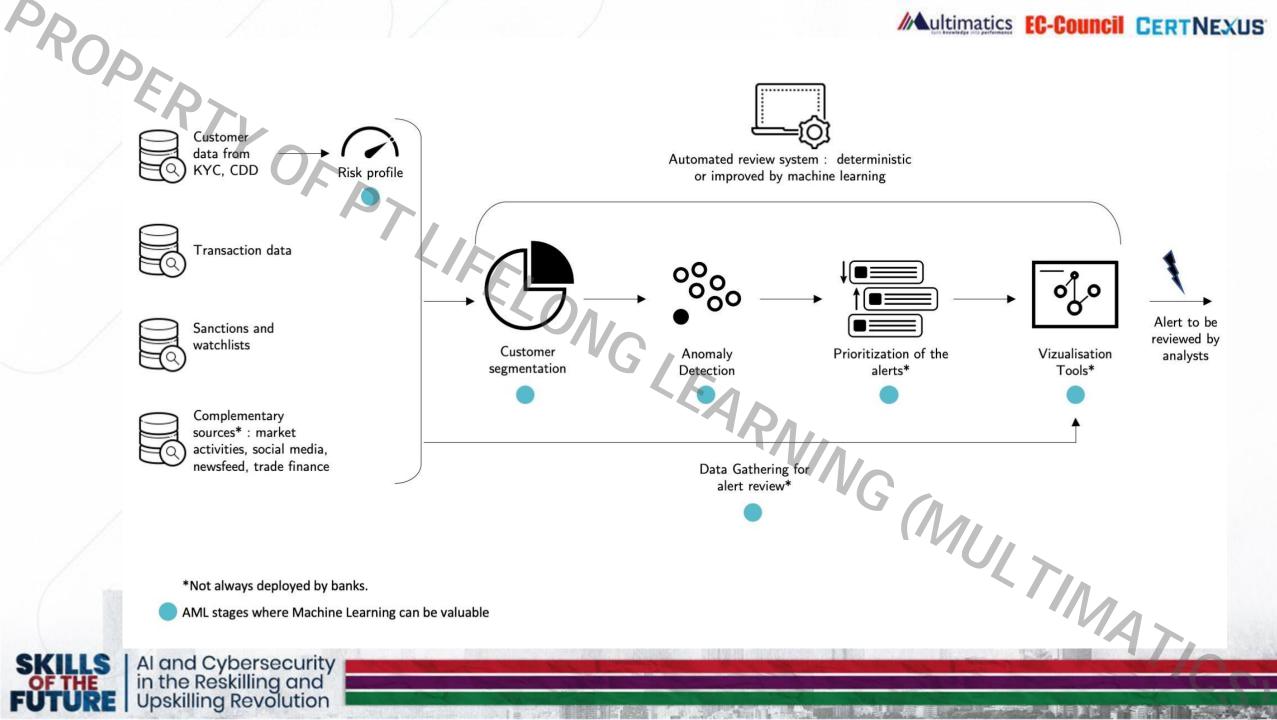


Figure 2: An augmented AML process applies intelligence at key lever points to produce significantly more accurate alerts.

HE LOT A STREET CONTAIL

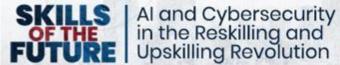




8. Personal Finance Management

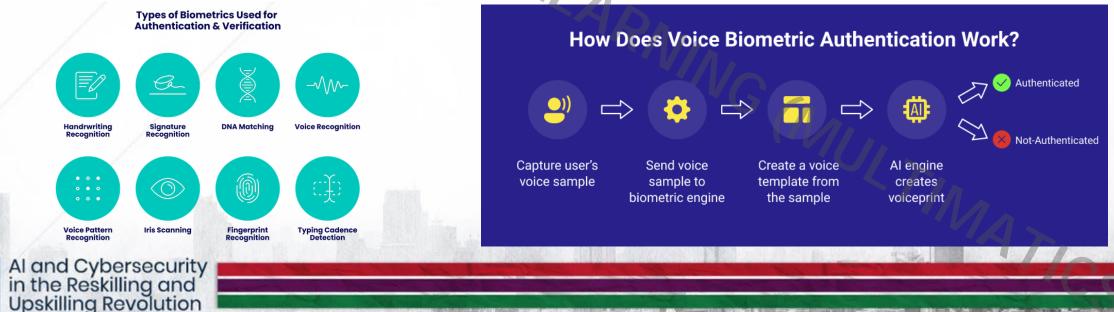
Al-powered personal finance management apps analyze users' spending habits, income, and financial goals to provide personalized financial insights, budgeting tools, and savings recommendations. These apps help users track their expenses, optimize their finances, and achieve their financial objectives.





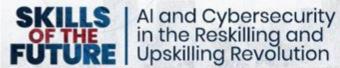
9. Voice Recognition and Biometric Authentication

Al technologies such as voice recognition and biometric authentication are used to enhance security and authentication in fintech applications. Voice biometrics and facial recognition systems verify users' identities more securely than traditional authentication methods, reducing the risk of identity theft and fraud.



10. Predictive Analytics and Market Forecasting

AI algorithms analyze historical market data, economic indicators, and other relevant factors to forecast market trends and make investment predictions. Predictive analytics tools help investors make informed decisions and optimize their investment strategies based on data-In . EARNING (MULTIMA) driven insights.





BARRIER TO BUSINESS TRANSFORMATION 2023-2027

Skills gaps in the local labour market 59.7% Inability to attract talent 53.4% 2. VGLEARNING (MULTIN Outdated or inflexible regulatory framework 41.9% З. Skills gaps among the organization's leadership 37.3% 37.2% Shortage of investment capital 5. 32.6% 6. Insufficient understanding of opportunities Source: The Future of Jobs Report, World Economic Forum, 2023 Al and Cybersecurity in the Reskilling and Upskilling Revolution

WORKFORCE STRATEGIES 2023-2027

Invest in learning and training on the job Accelerate the automation of processes Transition existing staff from declining to growing roles Outsource significant areas of work Expand the use of contract work Hire significantly more permanent staff

Reduce the current workforce significantly

Source

World Economic Forum, Future of Jobs Survey 2023.





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Economy Profile	1 / 2				Working Age Population (Millions)			
Indonesia							1	64.6
Trend outlook								
Key roles for business transformation	on							
Roles most selected by organizations surveyed (as eithe growth, and their net growth and structural chum (percen	C. 1946	e or declining), ordered k	by net role					
ROLES	NET GR -50% 0	OWTH ECONOMY	GLOBAL CHURN					
Al and Machine Learning Specialists	I I	39%	40%	Accountants and Auditors	I		12%	19
Business Development Professionals	1 1	39%	24%	Managing Directors and Chief Executives	1		18%	17
Data Analysts and Scientists	1 1	38%	34%	Assembly and Factory Workers	1		30%	17
Industrial and Production Engineers	L I	18%	15%	Administrative and Executive Secretaries	1		31%	35
Project Managers	I I	33%	25%	Data Entry Clerks	ľ,		38%	42
				Accounting, Bookkeeping and Payroll Clerks		-//	38%	29

SKILLS OF THE FUTURE AI and Cybersecurity in the Reskilling and Upskilling Revolution

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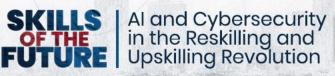
MEASUREMENT OF SOFT SKILLS ATTAINMENT

Deloitte Access Oliver et al. Workible OECD LinkedIn **Economics** Self-management Communication 1 Teamwork **Problem solving** 1 **Digital literacy Critical thinking** -Innovation Emotional judgement 0 **Global citizenship Professional ethics**

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Source: The Future of Jobs Report, World Economic Forum, 2023



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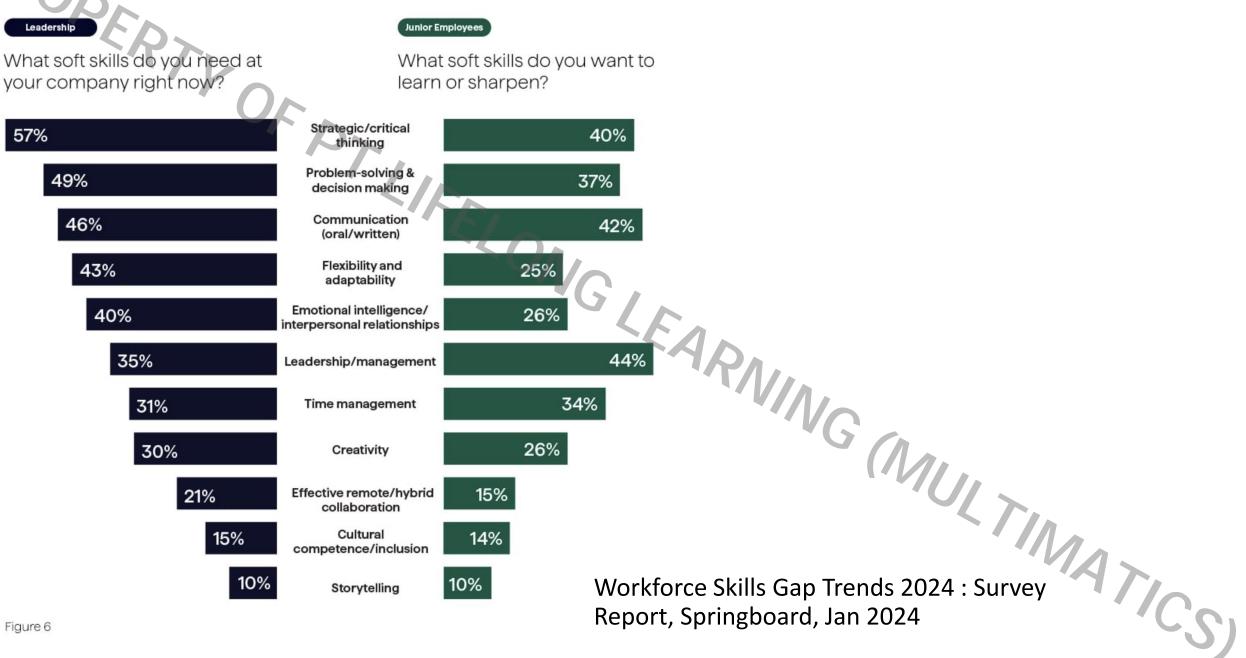


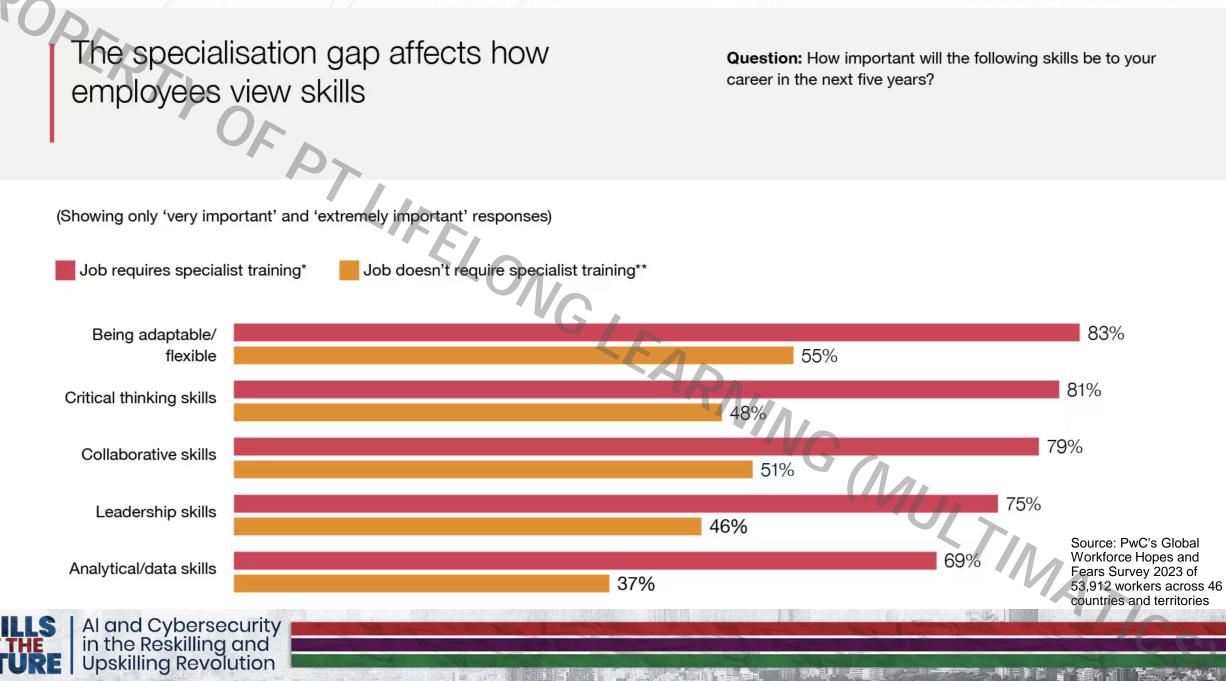
SOFT SKILLS OF STEM WORKERS IN STEM INDUSTRIES



The State of the Workforce Skills Gap

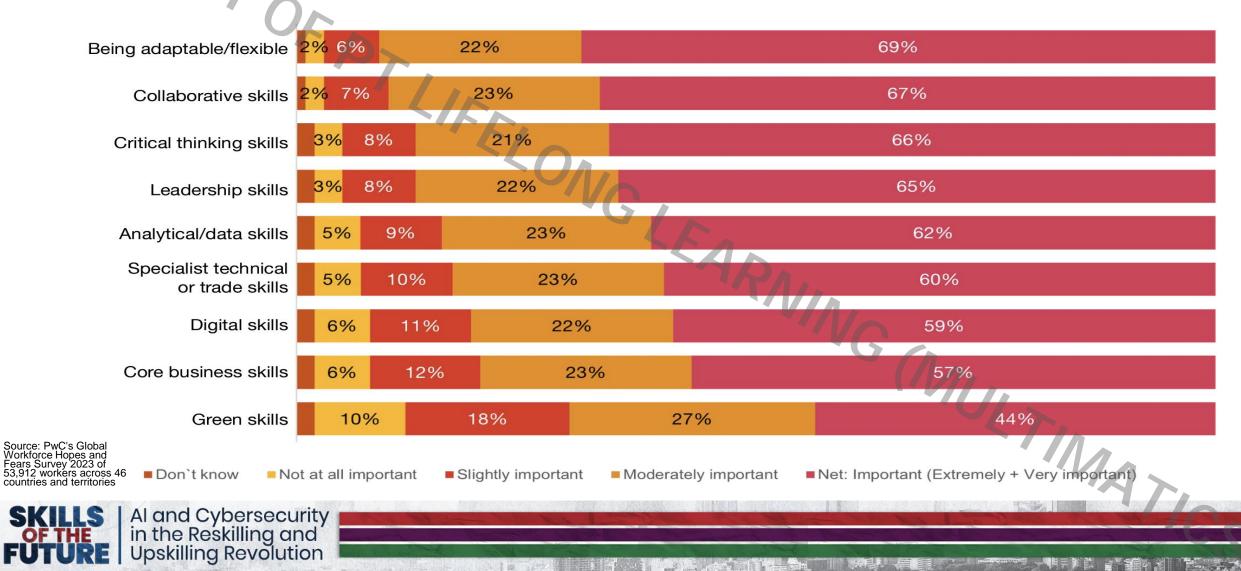






Human skills matter most in the modern workplace

Q. How important will the following skills be to your career in the next five years?



The State of the Workforce Skills Gap

Al and Cybersecurity in the Reskilling and Upskilling Revolution

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A.I. WON'T **STEAL JOBS BUT 'SOMEONE WHO' USE A.I.** Jensen Huang Nvidia's CEO EARNING (MULTIMATICS

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Employees see mostly positive impacts from AI

Question: What impact, if any, do you expect artificial intelligence (AI) to have on your career in the next five years?

31%

27%

22%

21%

18%

13%

11%

10%

52% of

respondents

one positive

respondents

one negative

statement

selected at least

statement

35% of

selected at least

Positive

Negative Neutral

Al will help me increase my productivity/efficiency at work

Al will create opportunities for me to learn new skills

Al will create new job opportunities for me

Al will require me to learn new skills that I'm not confident I have the capacity to learn

Al will change the nature of my work in a negative way

Al will replace my role

I don't think AI will impact my job

Al will impact my job in other ways not listed

Don't know Source: PwC's Global Workforce Hopes and Fears Survey 2023 of 53,912 workers across 46 countries and territories





