



Besides skills such as analytical thinking and data analysis, workers will also be required to be creative, to job makers can consider qualifying themselves in this area. PHOTO: ISTOCKPHOTO



Healthcare professionals like doctors and surgeons will always be in demand and their work is being made easier through digital solutions. For example, Siemens Healthcare's Cinematic Resonance technology uses advanced imaging such as CT scans of the heart, so 3D visualisations. Surgeons can use a mirror-reflected headset to see a realistic 3D view of the surgical area instead of using the device's 2D monitor. PHOTO: ISTOCKPHOTO

The jobs of the future

AI AND AUTOMATION EXPERTS

Artificial intelligence (AI) experts will be needed to design automation for the future. Most sectors are turning to AI and machine learning to do rote tasks, such as healthcare outcomes or patient care. Mr Richard Koh, chief technology officer of Microsoft Singapore, says there is growing demand for deep-tech and allied professionals in the AI industry.

Even in healthcare, laboratory testing can be performed by automated systems. Treving up medical technicians for one year added work, says Dr Prem Kumar Mar, chief executive of HPH Healthcare Singapore.

DATA ANALYTICS EXPERTS

The pandemic has brought more businesses and organisations online, and also more consumers.

CREATIVE SECURITY AND PROTECTION EXPERTS

Workforce professionals such as pharmacists, radiologists, and physiotherapists is expected to remain strong. However, AI and tech tools will be developed to reduce human error due to fatigue and to reduce the time each professional spends on rote tasks.

AI AND DATA SCIENTISTS

Data scientists analyse large volumes of data to improve business outcomes. They are in demand in most sectors, including healthcare, manufacturing and real estate and in financial services industry.

AI AND DATA SCIENTISTS

Healthcare, for example, uses large amounts of data generated regularly, either from hospital-grade medical devices or health trackers worn by individuals. This data can be analysed to help improve healthcare outcomes for patients.

AI AND DATA SCIENTISTS

Similarly, data sent by sensors that monitor the usage of a building or the performance of an automated factory assembly line can be analysed to improve the carbon footprint of a building or the efficiency of production.

AI AND DATA SCIENTISTS

AI and machine learning (ML) are set to continue to gain traction, says Mr Ben King (below), country director of Google Singapore. PHOTO: GOOGLE SINGAPORE

AI AND DATA SCIENTISTS

The pandemic has brought more businesses and organisations online, and also more consumers.

AI AND DATA SCIENTISTS

Workforce professionals such as pharmacists, radiologists, and physiotherapists is expected to remain strong. However, AI and tech tools will be developed to reduce human error due to fatigue and to reduce the time each professional spends on rote tasks.

AI AND DATA SCIENTISTS

Healthcare, for example, uses large amounts of data generated regularly, either from hospital-grade medical devices or health trackers worn by individuals. This data can be analysed to help improve healthcare outcomes for patients.

AI AND DATA SCIENTISTS

Similarly, data sent by sensors that monitor the usage of a building or the performance of an automated factory assembly line can be analysed to improve the carbon footprint of a building or the efficiency of production.

AI AND DATA SCIENTISTS

AI and machine learning (ML) are set to continue to gain traction, says Mr Ben King (below), country director of Google Singapore. PHOTO: GOOGLE SINGAPORE

AI AND DATA SCIENTISTS

The pandemic has brought more businesses and organisations online, and also more consumers.

AI AND DATA SCIENTISTS

Workforce professionals such as pharmacists, radiologists, and physiotherapists is expected to remain strong. However, AI and tech tools will be developed to reduce human error due to fatigue and to reduce the time each professional spends on rote tasks.

HOSPITALITY PROFESSIONALS

The human touch remains important in sectors such as tourism and dining.

Mr Chee Chien Wei, director of human resources and organisation development at the Singapore Tourism Board, says Singapore aims to position itself as a haven for vibrant wellness.

This means increased demand for fitness and wellness coaches, as well as hospitality professionals, among others.

SUSTAINABILITY EXPERTS

This is a growing theme across sectors.

As industries seek to reduce their carbon footprint, sustainability professionals will be required to define how this can be done and track whether or not progress is sustainable.

For example, green engineers are needed to find and implement such solutions that reduce the greenhouse gas emissions of construction.

Sustainable financing experts will generate green bonds and green loans for projects that have low carbon footprints and align with investors.

AI AND DATA SCIENTISTS

Based on input from CIO Development, Frasers Property, Google Singapore, HP HPH Healthcare Singapore, Microsoft Singapore, Siemens Healthcare Singapore and the Singapore Tourism Board.

AI AND DATA SCIENTISTS

The pandemic has brought more businesses and organisations online, and also more consumers.

AI AND DATA SCIENTISTS

Workforce professionals such as pharmacists, radiologists, and physiotherapists is expected to remain strong. However, AI and tech tools will be developed to reduce human error due to fatigue and to reduce the time each professional spends on rote tasks.

AI AND DATA SCIENTISTS

Healthcare, for example, uses large amounts of data generated regularly, either from hospital-grade medical devices or health trackers worn by individuals. This data can be analysed to help improve healthcare outcomes for patients.

AI AND DATA SCIENTISTS

Similarly, data sent by sensors that monitor the usage of a building or the performance of an automated factory assembly line can be analysed to improve the carbon footprint of a building or the efficiency of production.

AI AND DATA SCIENTISTS

AI and machine learning (ML) are set to continue to gain traction, says Mr Ben King (below), country director of Google Singapore. PHOTO: GOOGLE SINGAPORE

AI AND DATA SCIENTISTS

The pandemic has brought more businesses and organisations online, and also more consumers.

AI AND DATA SCIENTISTS

Workforce professionals such as pharmacists, radiologists, and physiotherapists is expected to remain strong. However, AI and tech tools will be developed to reduce human error due to fatigue and to reduce the time each professional spends on rote tasks.

AI AND DATA SCIENTISTS

Healthcare, for example, uses large amounts of data generated regularly, either from hospital-grade medical devices or health trackers worn by individuals. This data can be analysed to help improve healthcare outcomes for patients.

AI AND DATA SCIENTISTS

Similarly, data sent by sensors that monitor the usage of a building or the performance of an automated factory assembly line can be analysed to improve the carbon footprint of a building or the efficiency of production.

AI AND DATA SCIENTISTS

AI and machine learning (ML) are set to continue to gain traction, says Mr Ben King (below), country director of Google Singapore. PHOTO: GOOGLE SINGAPORE

AI AND DATA SCIENTISTS

The pandemic has brought more businesses and organisations online, and also more consumers.

LEAD INSPIRE CARE SERVE DARE

THE STRAITS TIMES SINGAPOREAN OF THE YEAR 2021

UBS

NOMINATE YOUR LOCAL HERO

Do you know any Singaporeans whose inspiring achievements you have made as a member of the community?

The Straits Times Singaporean of the Year 2021 award presented by UBS aims to honour the best of our home world.

Impact made by Singaporeans can be celebrated in the Straits Times Singaporean of the Year 2021 award.

Send in your nominations now at str.ssg/2021nominate

Nominations close on the 15th, 2021

What jobs will we see by 2025?

Trends like digitalisation, focus on the environment and remote work are creating new roles and revising the old

As the world shifts towards digitalisation, remote work, and environmental focus, new job roles are emerging. These include digitalisation experts, sustainability professionals, and remote work specialists. The demand for these roles is expected to grow significantly by 2025.

1. AI AND AUTOMATION EXPERTS

Artificial intelligence (AI) experts will be needed to design automation for the future. Most sectors are turning to AI and machine learning to do rote tasks, such as healthcare outcomes or patient care. Mr Richard Koh, chief technology officer of Microsoft Singapore, says there is growing demand for deep-tech and allied professionals in the AI industry.

Even in healthcare, laboratory testing can be performed by automated systems. Treving up medical technicians for one year added work, says Dr Prem Kumar Mar, chief executive of HPH Healthcare Singapore.

2. DATA ANALYTICS EXPERTS

The pandemic has brought more businesses and organisations online, and also more consumers.

3. CREATIVE SECURITY AND PROTECTION EXPERTS

Workforce professionals such as pharmacists, radiologists, and physiotherapists is expected to remain strong. However, AI and tech tools will be developed to reduce human error due to fatigue and to reduce the time each professional spends on rote tasks.

4. AI AND DATA SCIENTISTS

Healthcare, for example, uses large amounts of data generated regularly, either from hospital-grade medical devices or health trackers worn by individuals. This data can be analysed to help improve healthcare outcomes for patients.

Similarly, data sent by sensors that monitor the usage of a building or the performance of an automated factory assembly line can be analysed to improve the carbon footprint of a building or the efficiency of production.

5. AI AND DATA SCIENTISTS

AI and machine learning (ML) are set to continue to gain traction, says Mr Ben King (below), country director of Google Singapore. PHOTO: GOOGLE SINGAPORE

The pandemic has pushed businesses and consumers online, and also more consumers.

Mr Ben King (below), country director of Google Singapore. PHOTO: GOOGLE SINGAPORE

6. SUSTAINABILITY

Sustainability and ESG (environment and social governance) are becoming increasingly important for businesses. Companies are increasingly committed to lowering their carbon footprint to net zero within a decade or more, while a growing number of consumers have become aware of their carbon footprint. Mr Forster, Asia chief sustainability officer of City Development, says a lot of firms will formalised their drive to drive sustainable business.

The real estate developer carried out a study with several hundred citizens and external stakeholders last year and found that ESG and carbon footprint were important when they considered investment.

Ms An see green in jobs related to products and solutions that decarbonisation and relevant technology.

The sector will need specialists in construction and facilities management, as being augmented by technology and automation practices such as smart building systems that monitor and adjust work on temperature, lighting and overall air quality.

Traditional roles in construction and facilities management are being augmented by technology and automation practices such as smart building systems that monitor and adjust work on temperature, lighting and overall air quality.

Similarly, Mr Benjamin Bui, chief marketing officer of Microsoft Singapore, says while digitalisation, data analytics and automation are expected to continue to grow, from facing roles remain to be "highly relevant and connected with consumers."

7. HUMAN TOUCH

High touch services and digital health solutions are being developed. While there has been much discussion about technology and digitisation taking over many roles in healthcare, medical management still very much high-touch and hands-on nature, increasing it will remain human intensive in the front-line clinician roles.

"Demand for clinical staff - nurses, allied healthcare professionals and especially nurses - will only continue to increase."

However, nurses and allied healthcare professionals will use more digital tools. "Our nurses of digital tools will require additional skills to stay effective in their roles," Dr Yeh says.

"To us, the care we need a wide range of roles and capabilities - including nurses, practitioners and relevant healthcare professionals - to provide wide-ranging and personalised wellness services for both acute and chronic care patients."

Similarly, Mr Benjamin Bui, chief marketing officer of Microsoft Singapore, says while digitalisation, data analytics and automation are expected to continue to grow, from facing roles remain to be "highly relevant and connected with consumers."

8. HUMAN TOUCH

High touch services and digital health solutions are being developed. While there has been much discussion about technology and digitisation taking over many roles in healthcare, medical management still very much high-touch and hands-on nature, increasing it will remain human intensive in the front-line clinician roles.

"Demand for clinical staff - nurses, allied healthcare professionals and especially nurses - will only continue to increase."

However, nurses and allied healthcare professionals will use more digital tools. "Our nurses of digital tools will require additional skills to stay effective in their roles," Dr Yeh says.

"To us, the care we need a wide range of roles and capabilities - including nurses, practitioners and relevant healthcare professionals - to provide wide-ranging and personalised wellness services for both acute and chronic care patients."

Similarly, Mr Benjamin Bui, chief marketing officer of Microsoft Singapore, says while digitalisation, data analytics and automation are expected to continue to grow, from facing roles remain to be "highly relevant and connected with consumers."

9. HUMAN TOUCH

High touch services and digital health solutions are being developed. While there has been much discussion about technology and digitisation taking over many roles in healthcare, medical management still very much high-touch and hands-on nature, increasing it will remain human intensive in the front-line clinician roles.

"Demand for clinical staff - nurses, allied healthcare professionals and especially nurses - will only continue to increase."

However, nurses and allied healthcare professionals will use more digital tools. "Our nurses of digital tools will require additional skills to stay effective in their roles," Dr Yeh says.

"To us, the care we need a wide range of roles and capabilities - including nurses, practitioners and relevant healthcare professionals - to provide wide-ranging and personalised wellness services for both acute and chronic care patients."

Similarly, Mr Benjamin Bui, chief marketing officer of Microsoft Singapore, says while digitalisation, data analytics and automation are expected to continue to grow, from facing roles remain to be "highly relevant and connected with consumers."

10. HUMAN TOUCH

High touch services and digital health solutions are being developed. While there has been much discussion about technology and digitisation taking over many roles in healthcare, medical management still very much high-touch and hands-on nature, increasing it will remain human intensive in the front-line clinician roles.

"Demand for clinical staff - nurses, allied healthcare professionals and especially nurses - will only continue to increase."

However, nurses and allied healthcare professionals will use more digital tools. "Our nurses of digital tools will require additional skills to stay effective in their roles," Dr Yeh says.

"To us, the care we need a wide range of roles and capabilities - including nurses, practitioners and relevant healthcare professionals - to provide wide-ranging and personalised wellness services for both acute and chronic care patients."

Similarly, Mr Benjamin Bui, chief marketing officer of Microsoft Singapore, says while digitalisation, data analytics and automation are expected to continue to grow, from facing roles remain to be "highly relevant and connected with consumers."

11. HUMAN TOUCH

High touch services and digital health solutions are being developed. While there has been much discussion about technology and digitisation taking over many roles in healthcare, medical management still very much high-touch and hands-on nature, increasing it will remain human intensive in the front-line clinician roles.

"Demand for clinical staff - nurses, allied healthcare professionals and especially nurses - will only continue to increase."

However, nurses and allied healthcare professionals will use more digital tools. "Our nurses of digital tools will require additional skills to stay effective in their roles," Dr Yeh says.

"To us, the care we need a wide range of roles and capabilities - including nurses, practitioners and relevant healthcare professionals - to provide wide-ranging and personalised wellness services for both acute and chronic care patients."

Similarly, Mr Benjamin Bui, chief marketing officer of Microsoft Singapore, says while digitalisation, data analytics and automation are expected to continue to grow, from facing roles remain to be "highly relevant and connected with consumers."