

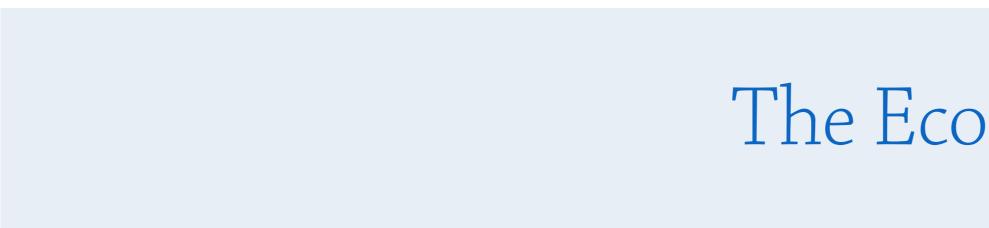
APEC – Closing the Digital Skills Gap Forum

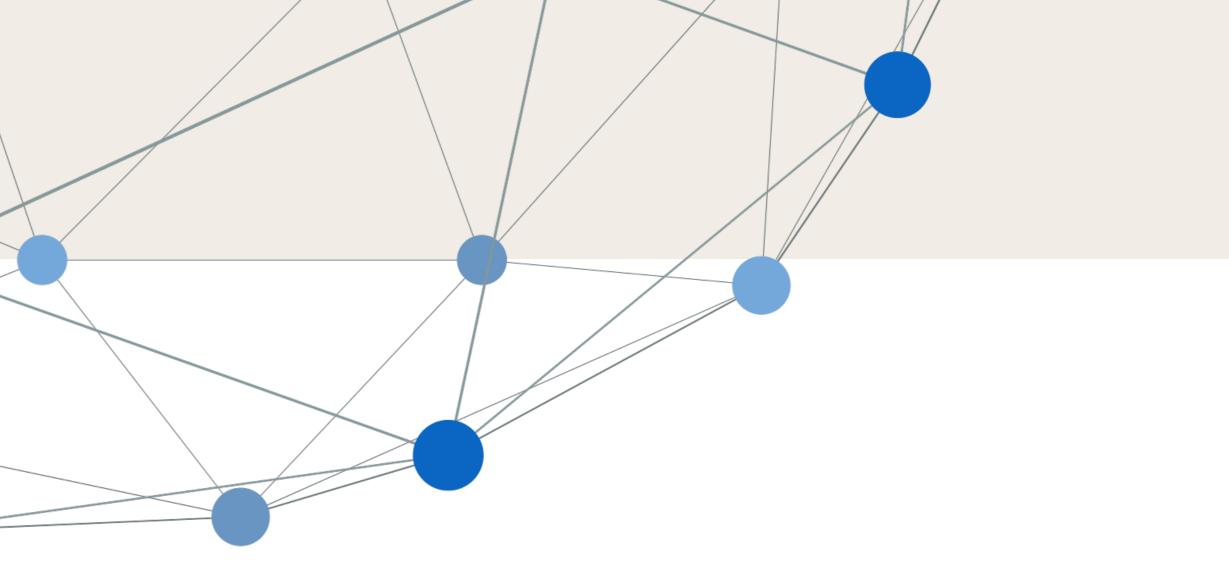


Create economic opportunity for every member of the global workforce

Our Vision





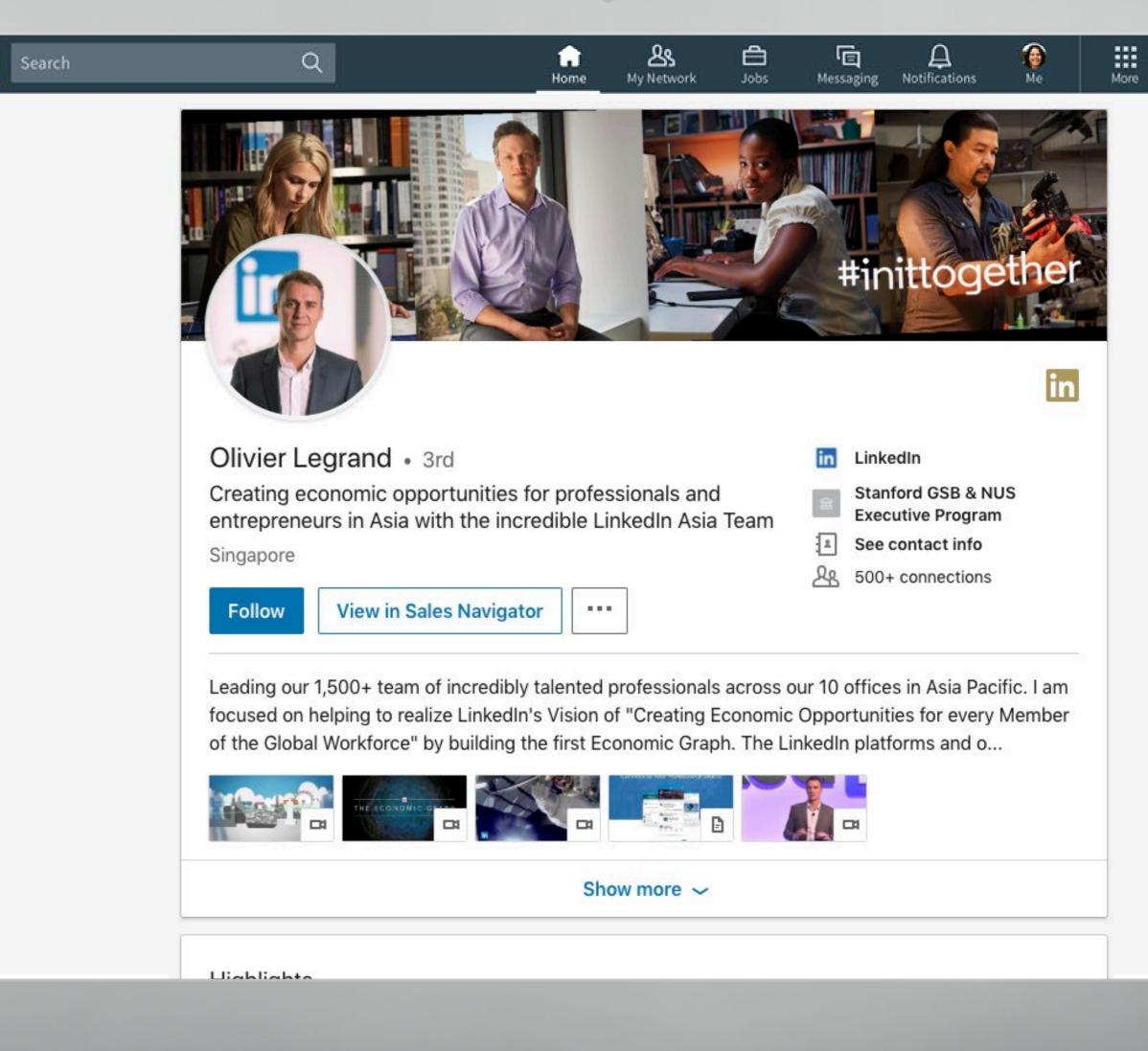


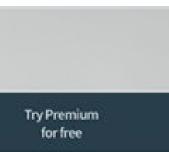


The Economic Graph

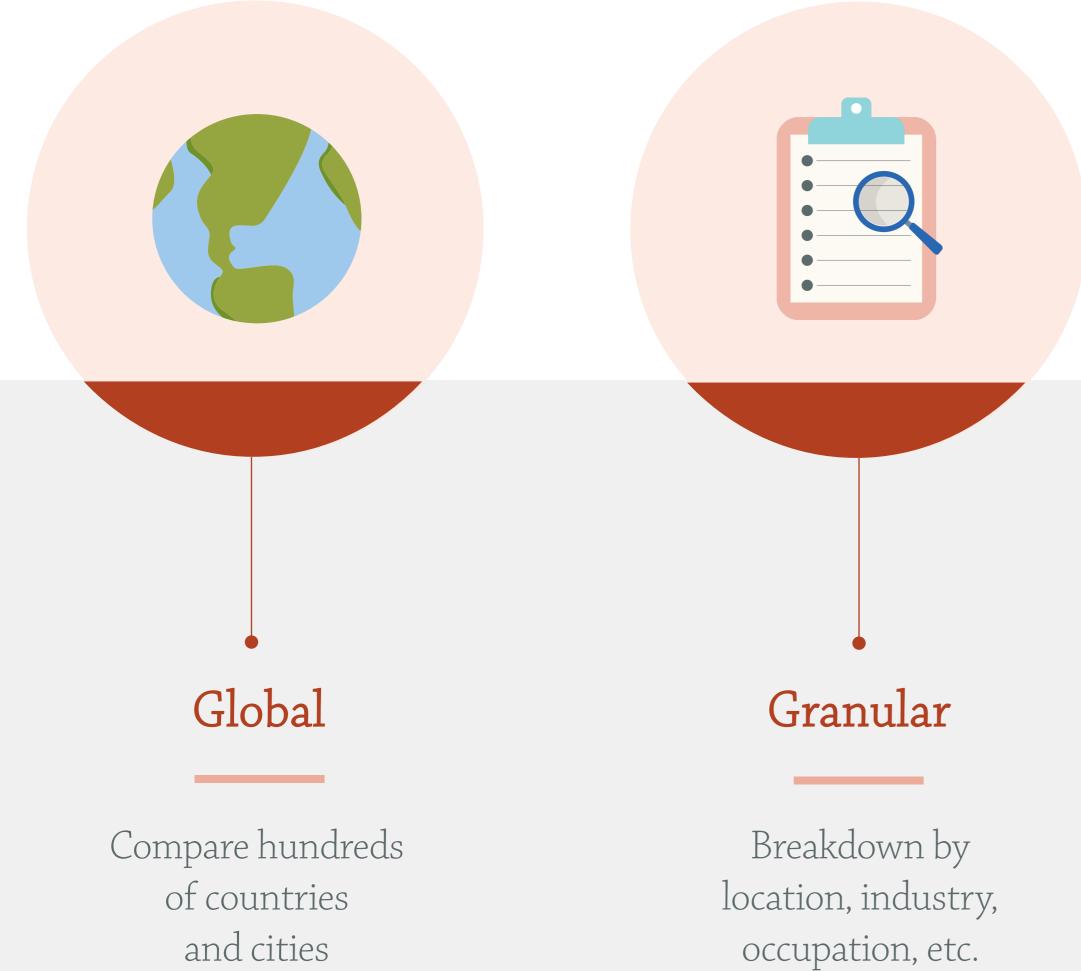
in

LinkedIn uses algorithms and data science to transform data into labor market insights





Features of LinkedIn data



and cities

Real-Time

Members constantly update their profiles

Historical

Monitor data – like migration patterns – over time





AI Talent: Who, Where, What?



AI and emerging technologies will have an impact on the global workforce, no matter where we live and work.

THE LEVEL OF IMPACT BASED ON







And for each country to understand it's local challenges and design suitable interventions.

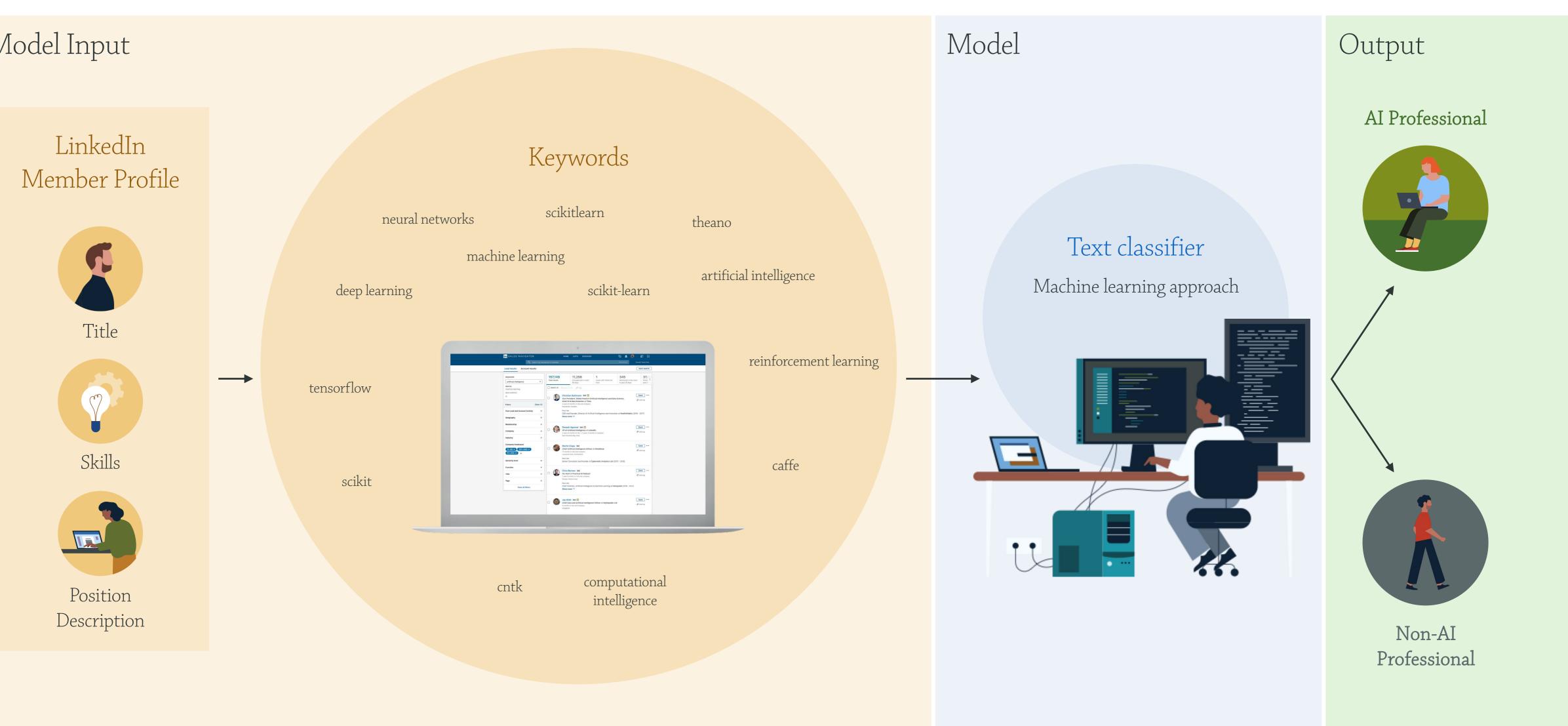
> Closing this gap in the foreseeable future.

It is important to understand what is the lay of the land for AI.



Identifying AI talent

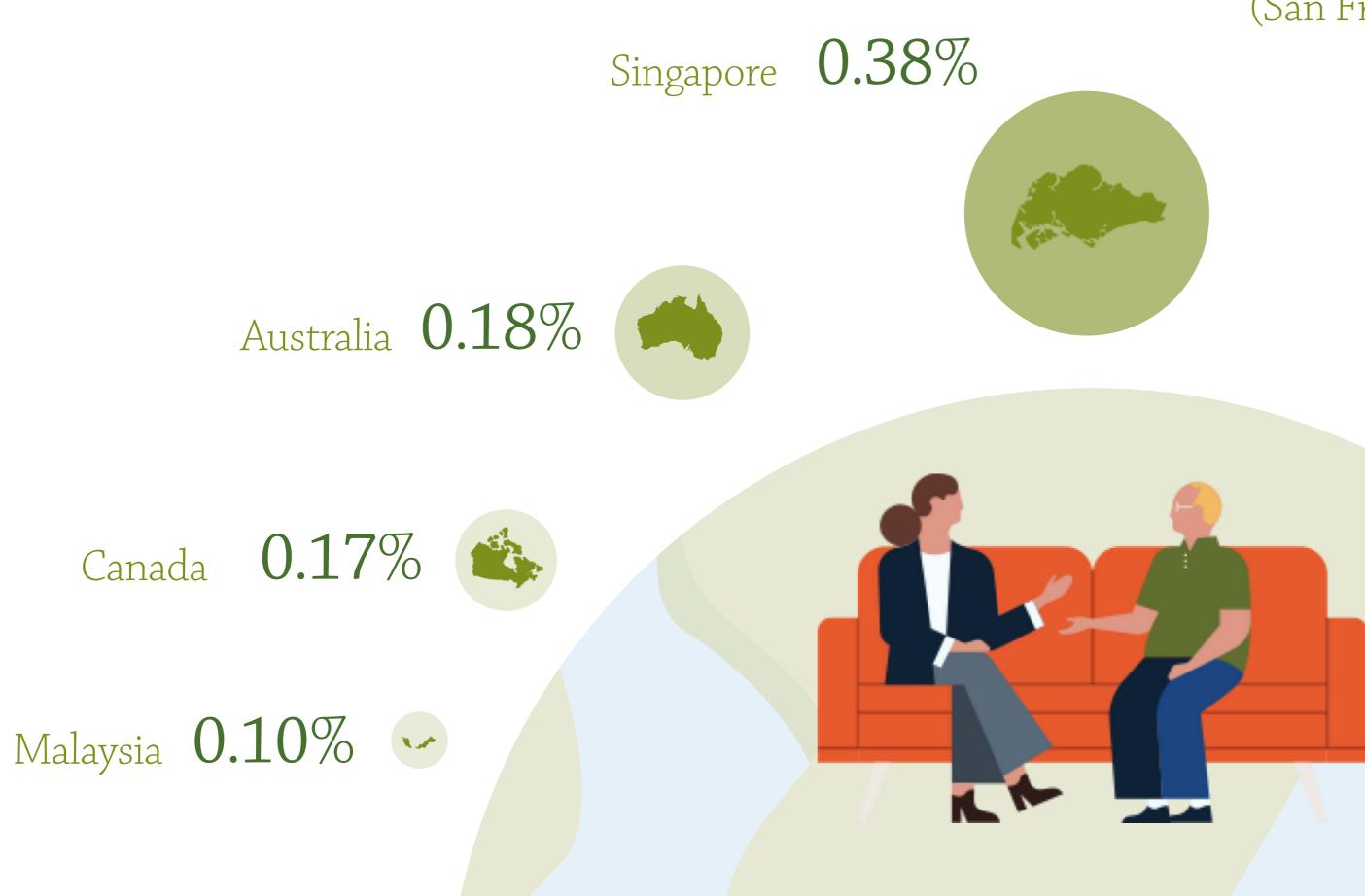
Model Input



AI Talent: Who, Where, What?



Proportion of AI Talent in each country

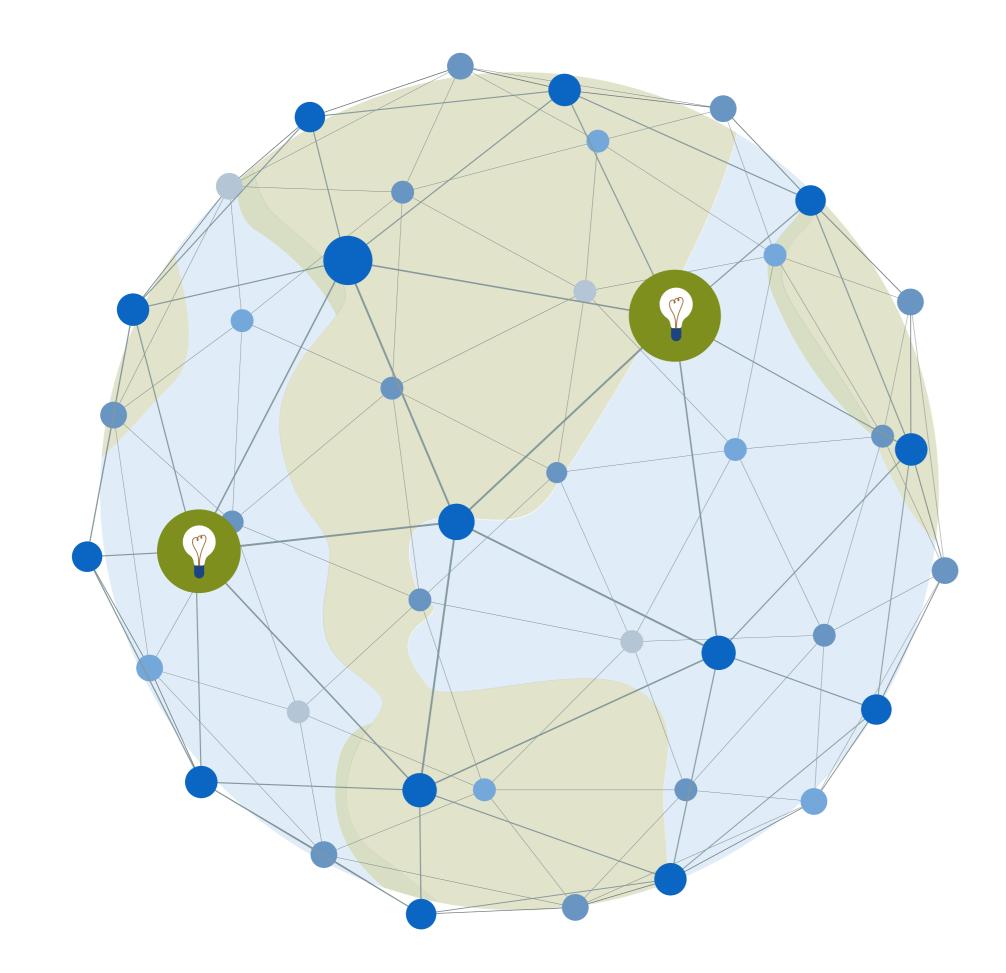




United States (San Francisco) 1.65%



Top Industries where AI talent work





There are localized differences in the focus area for AI - Software & IT is the generally the top industry where AI talent works, with exception of Singapore where Education tops the charts.





Australia

- Software & IT Services
- Education
- Hardware & Networking
- Manufacturing
- Finance



Singapore

- Education
- Software & IT Services
- Hardware & Networking
- Manufacturing
- Finance



United States

- Software & IT Services
- Hardware & Networking
- Consumer Goods
- Education
- Manufacturing



Canada

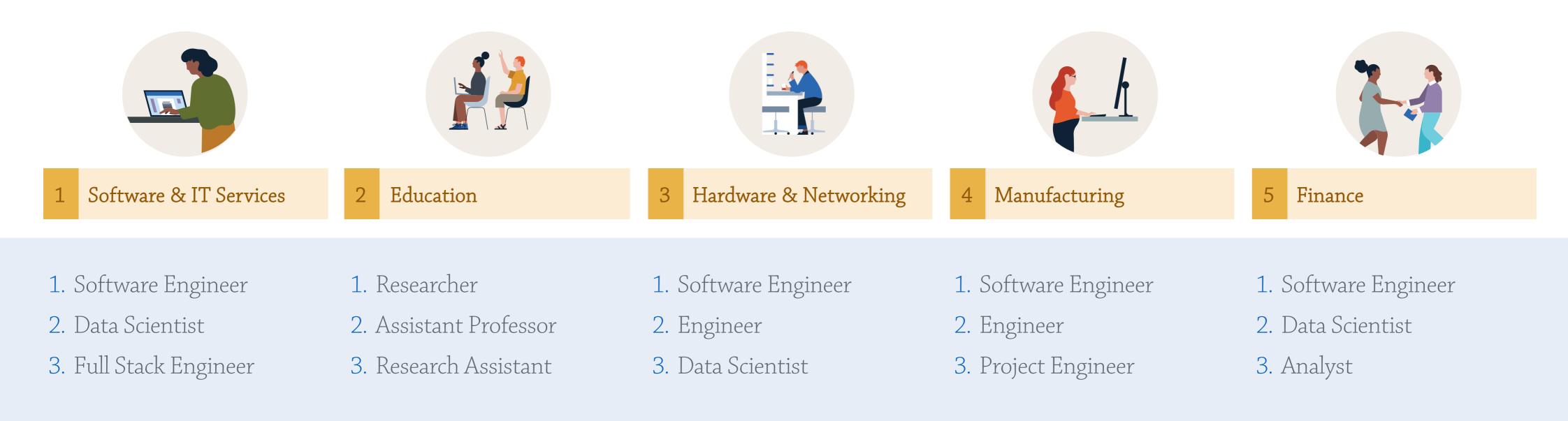
- Software & IT Services
- Education
- Hardware & Networking
- Manufacturing
- Entertainment



Malaysia

- Software & IT Services
- Education
- Hardware & Networking
- Manufacturing
- Energy & Mining

Most Common Roles of AI talent in various industries





For Tech, Manufacturing and Finance industries, AI talent takes up software engineering and data scientist roles, while for Education there is more academia focus with AI talent taking up researcher and professor positions.



Top 10 skills unique to AI talent in each country





	Australia	Canada	Malaysia	Singapore	United States
#1	Python (Programming Language)				
2	Machine Learning	C++	C++	Machine Learning	Machine Learning
3	Data Analysis	Machine Learning	Machine Learning	C++	C++
4	SQL	Java	Java	Java	Java
5	Java	SQL	Matlab	Data Analysis	SQL
6	Research	C (Programming Language)	Research	C (Programming Language)	C (Programming Language)
7	C++	Data Analysis	JavaScript	SQL	Linux
8	Programming	Matlab	C (Programming Language)	Matlab	Software Development
9	Matlab	JavaScript	Data Analysis	JavaScript	JavaScript
10	Software Development	Research	Programming	Programming	Data Analysis

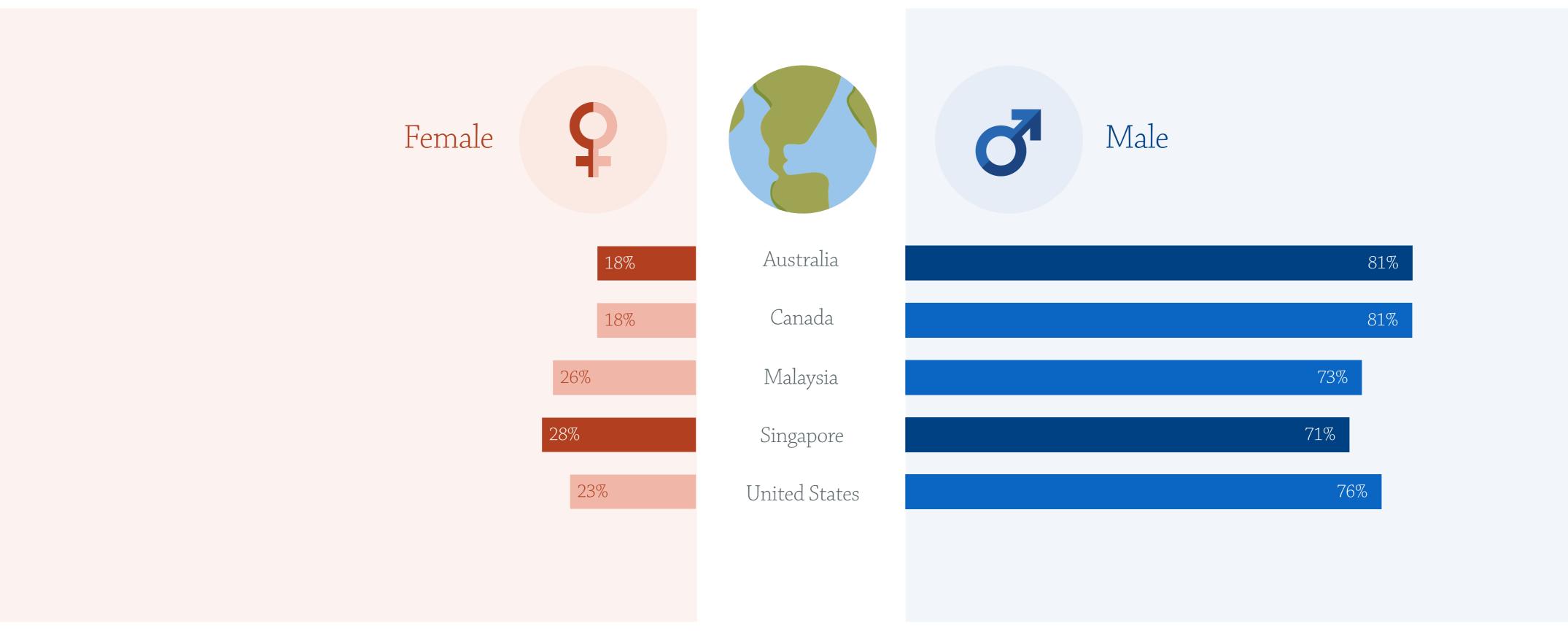


7 out of the top 10 pertinent skills possessed by AI professionals are programming languages. Python is the most popular coding language amongst AI professionals with about 35% listing it.





The split between male and female AI talent





There is a stark gender gap - **only 20%** of the AI professionals are female.



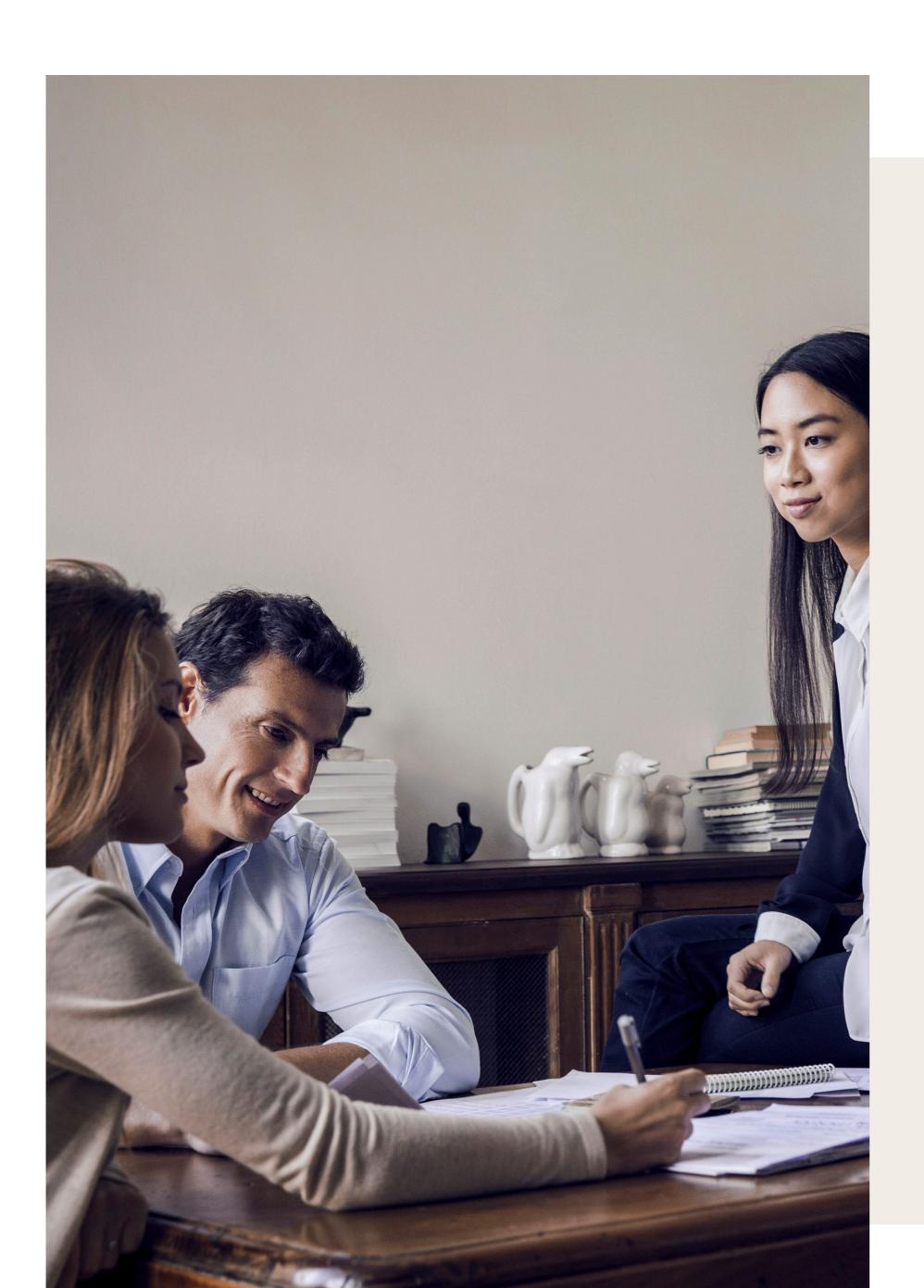
The gender split across different industries





AI gender gap is wider than the general gender gap in each industry, indicating gender imbalance within AI. This is seen even in industries like Education and Healthcare, which are traditionally popular with female professionals.





Summary

- With AI becoming prominent even in non tech industries, we need to start thinking of industry specific interventions to prepare the workforce.
- Apart from tech skills in AI, soft skills remain important to navigate the uncertainty and constant changes in the labour market.
- Interventions may also be necessary to avoid perpetuating the gender gap.
- In collaboration with governments and public sector organisations, insights from private organisations can be highly valuable in understanding the labour market trends and preparing for the future of work.

