

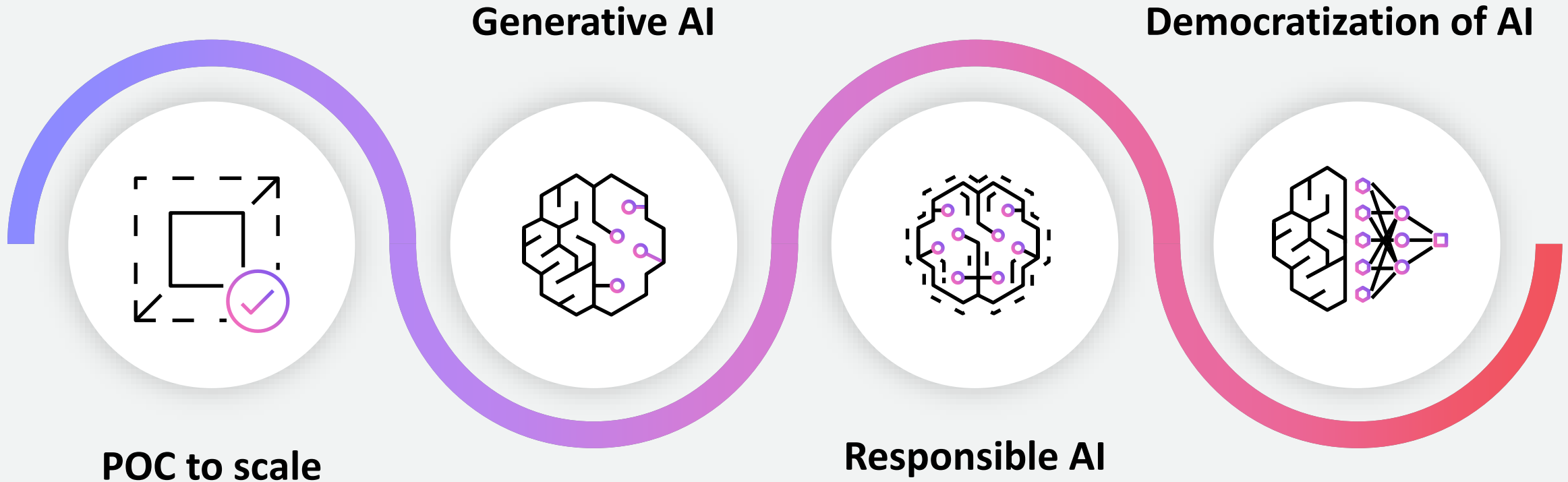


From theory to practice: accelerating AI/ML innovation

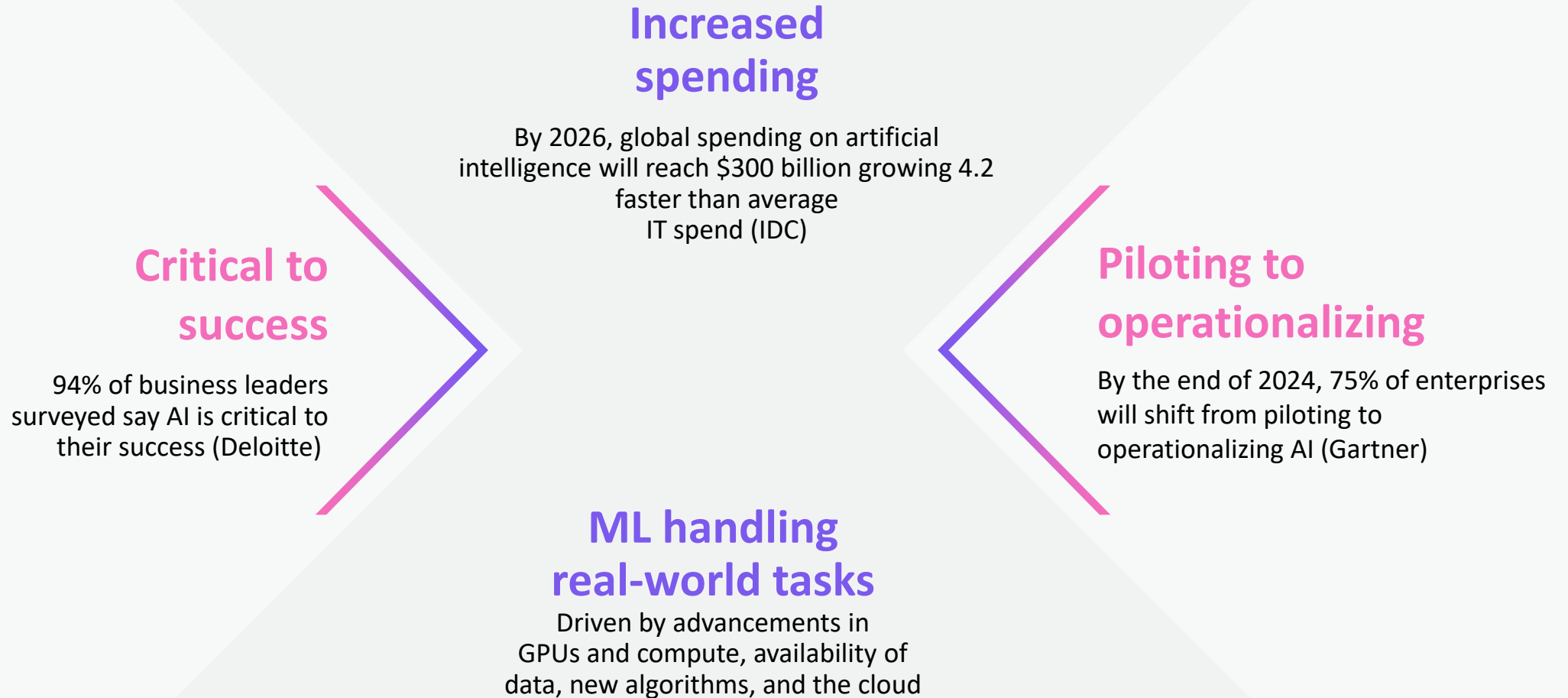
Sherry Marcus

Director of Applied Science, Artificial
Intelligence and Machine Learning
Amazon Web Services

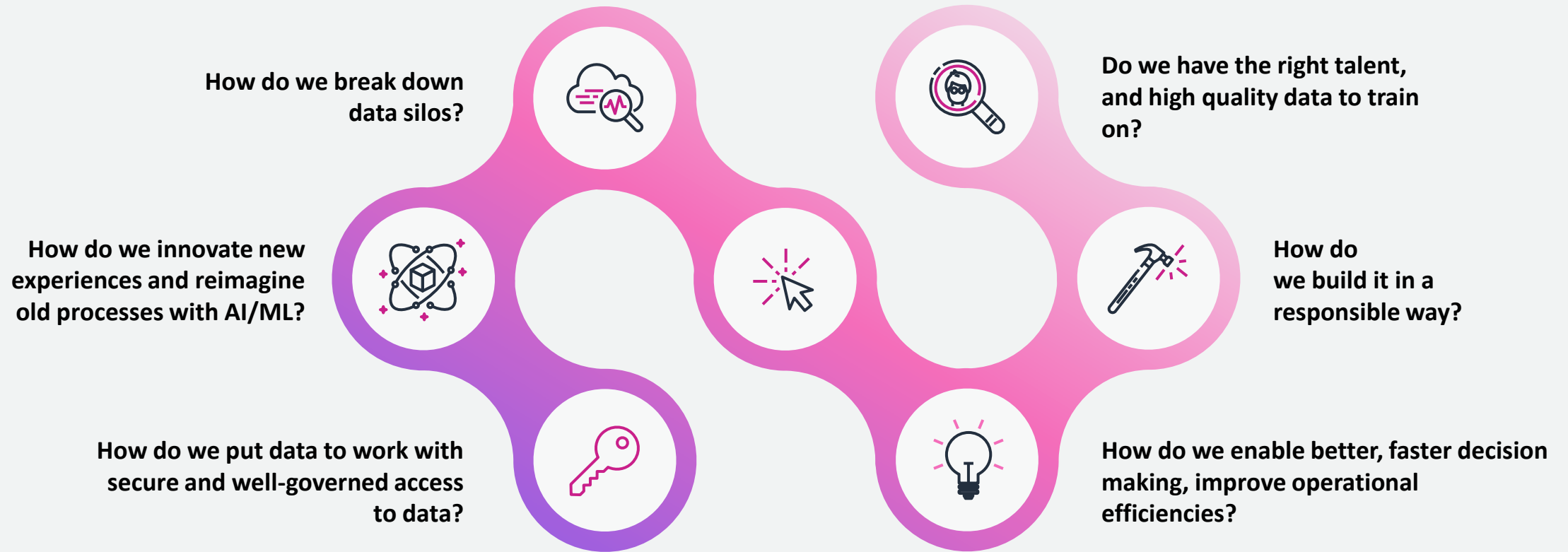
From theory to practice: operationalizing AI/ML



Machine learning has changed the landscape



The AI/ML journey is filled with challenges



How to accelerate a POC to production



And scale with proven outcomes



**Advancing voting with
ML**



**Accelerating innovation for
patients**



**Diving deep for
data**

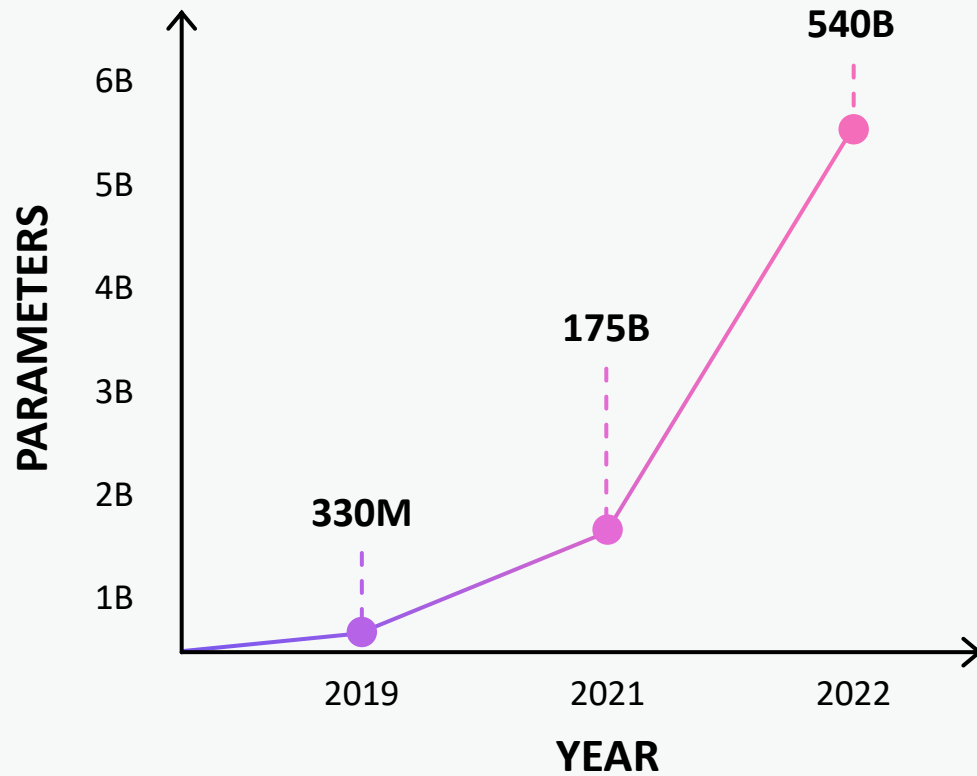




Question: what is generative AI?

- Creates new content and ideas, including conversations, stories, images, videos, and music
- Powered by large models that are pretrained on vast corpuses of data and commonly referred to as foundation models (FMs)

Rise of foundation models

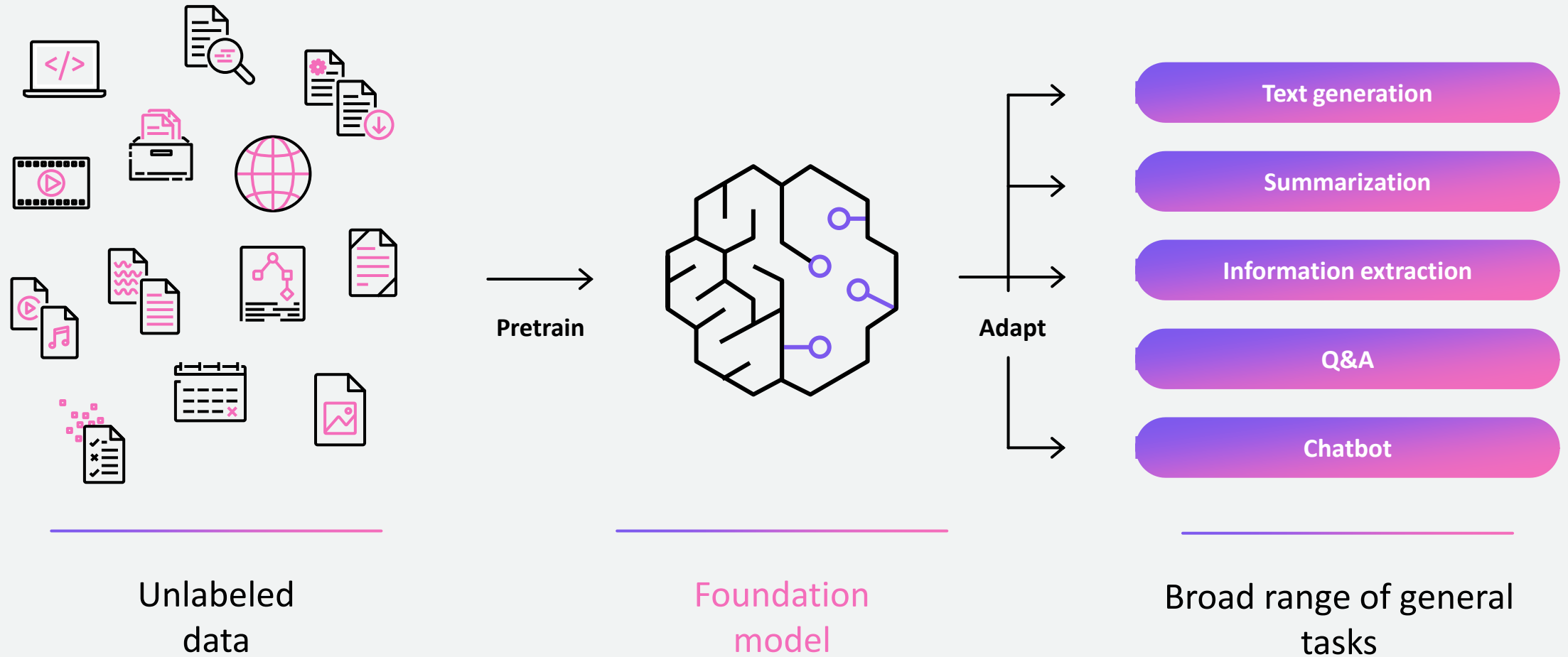


2019–2022

1,600x

increase in size of model as
measured by number
of parameters

How foundation models work





RICOH

The RICOH logo is displayed in a bold, red, sans-serif font. It is centered within a white rectangular box that has a thin, multi-colored gradient border at the top.

FOX

The FOX logo is displayed in a bold, blue, sans-serif font. It is centered within a white rectangular box that has a thin, multi-colored gradient border at the top.

AI and ML continue to grow and evolve

Millions of people have engaged with generative AI

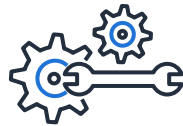
New ways to make art, compose letters, write stories, etc.

Key concerns around bias mitigation, truthfulness, privacy, intellectual property, and more

With the growth of AI comes the recognition that we must all use it **responsibly**

Our commitment

Our commitment to develop AI and machine learning in a responsible way is integral to our approach



Transforming responsible AI from theory to practice



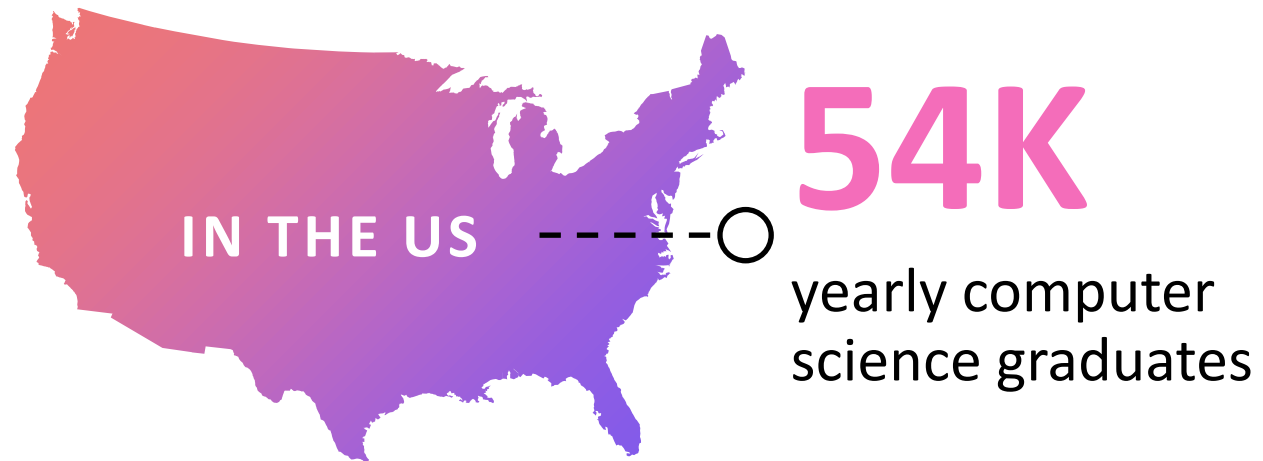
Integrate responsible AI into the end-to-end ML lifecycle



Nurture and educate a more diverse generation of leaders in ML



Advance the science behind responsible AI





IN THE US

54K

yearly computer
science graduates

1M

jobs added to the AI
workforce by 2029

310,000
developers
trained on machine
learning with
AWS DeepRacer



AWS AI & ML Scholarship Program

\$10M
awarded to
students

2,000
students selected



Resources: from theory to practice



ML
Solutions Lab



AWS
DeepRacer



AI/ML Scholarship
Program



Generative
AI



Responsible
AI

Get started today



Thank you!