



Stanford
MEDICINE

Children's Health

ROI of GPT

Keith Morse, MD, MBA
Clinical Assistant Professor

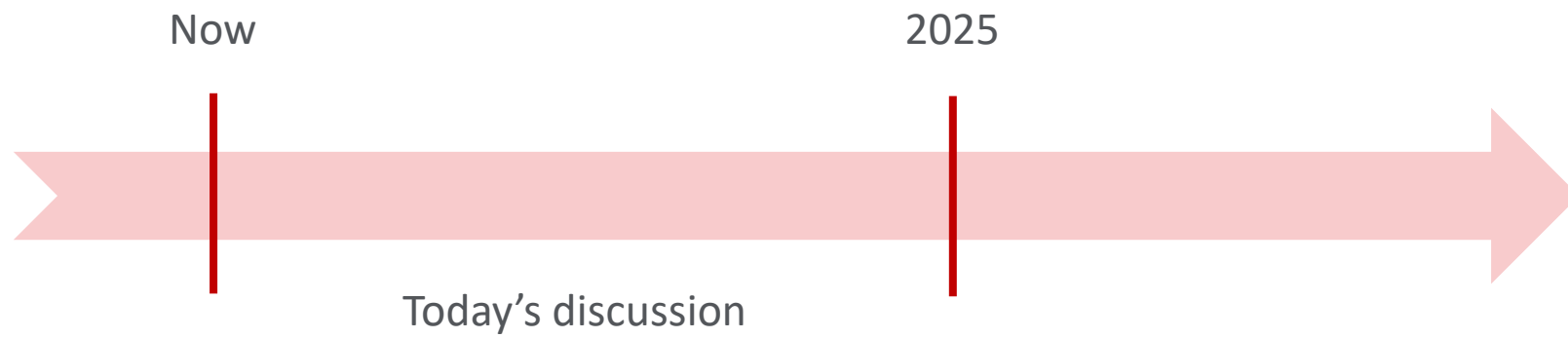
AMDIS Conference
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Translational Data Science at Packard (TDaP):



Large language models



Unsolved Challenges in ML

Equity

Transparency

Safety

Reliability

Privacy

ROI = 'It helps' – 'It hurts'

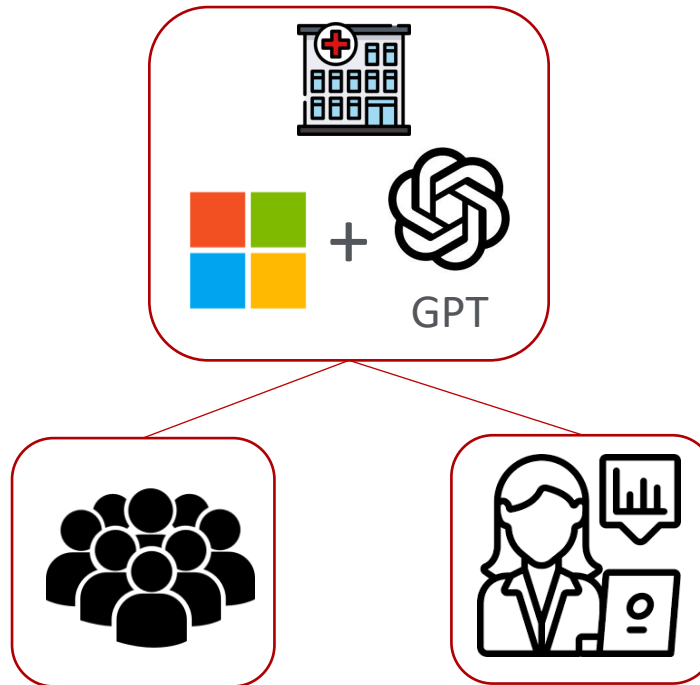


Types of GPT

Public



Endorsed



Integrated



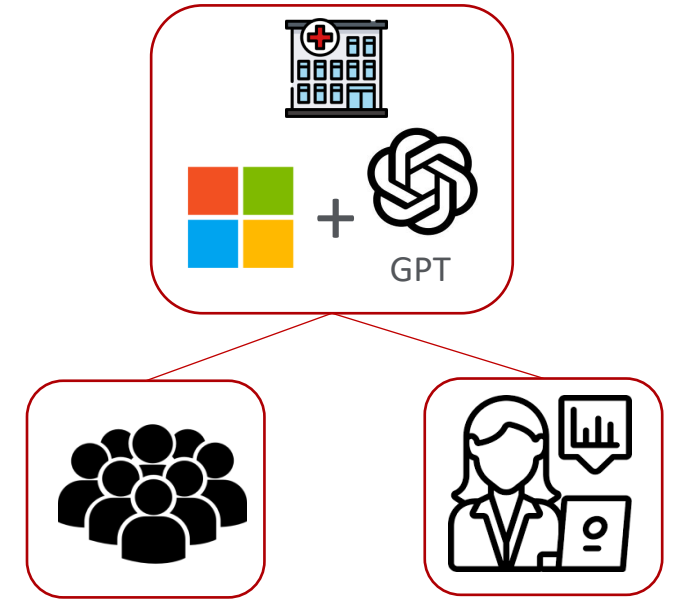
Public

- **Ex:** ChatGPT, Glass.ai, Bard
- **Upside**
 - Non-specific productivity gains
 - Identify local use-cases
- **Downside**
 - Risk – PHI, legal liability, inexperienced users
- **To Do's**
 - Determine internal policy



Endorsed

- **Ex:** Microsoft + OpenAI, Google Med-PaLM
- **Upside**
 - PHI safe
 - Many potential uses
 - Vendor maintains cutting-edge model
- **Downside**
 - Risk – Legal liability, inexperienced users
 - Cost
 - Unpredictable impact of model updates
 - Training local users
- **To Do's**
 - Set up oversight team
 - Roll-out strategy



Integrated

- **Ex:** Epic + OpenAI
- **Upside**
 - High yield use-case
 - 'Validated'
 - Clinical integration
 - Version upgrade plan
- **Downside**
 - Slow releases
 - Limited use-cases
- **To Do's**
 - Set up oversight team
 - Roll-out strategy



Conclusion

- **Public - Endorsed - Integrated**
- **You are on your own**
- **Consider a local oversight team**