Too Expensive (Money) **Is Current Machine Learning Paradigm**

Making Real AI - Series

(Shaka) Shih-Chia Chen

Founder/CFO www.libgirl.com



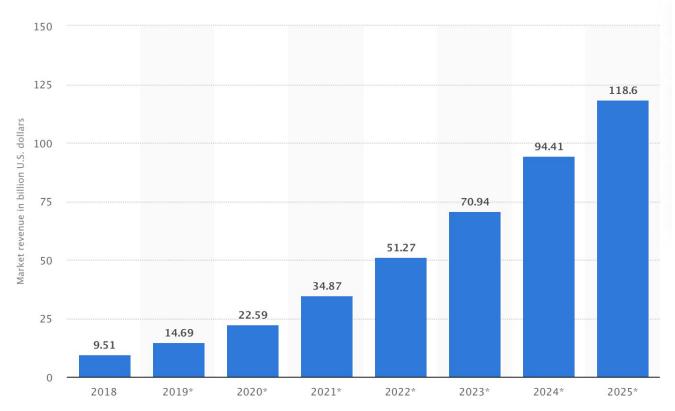


Background: Al is Already Everywhere. It Succeeds.





Market Size is Huge







(Liu, 2019)

BUT

"We have seen a surprisingly consistent pattern in the financial data of Al companies, with gross margins often in the **50-60**% range – well below the **60-80%PLUS** benchmark for comparable SaaS businesses."

(Casado & Bornstein, 2020)





Cost 1 - Retraining Machine Learning Models

"Training a single Al model can cost hundreds of thousands of dollars (or more) retraining is increasingly recognized as an ongoing cost, since the data that feeds Al models tends to change over time"

(Casado & Bornstein, 2020)





Cost 2 - Users' Open Intents

"Users can – and will – enter ... anything into an Al app

Handling this huge state space tends to be an ongoing chore." (Casado & Bornstein, 2020)





Root Cause

is current machine learning paradigm assuming static task/data.

- 1. Task/data change costs a lot.
- 2. Task-specific machine learning doesn't handle users' open intents. Task enumeration cost is too high.



Current task-specific machine learning paradigm is expensive,

Let's shift the paradigm.





References

- Liu, S. (2019). Global Al software market size 2018-2025 | Statistic. Statista; Statista. https://www.statista.com/statistics/607716/worldwide-artificial-intelligence-market-revenues/
- Casado, M., & Bornstein, M. (2020, February 16). The New Business of AI (and How It's Different From Traditional Software). Andreessen Horowitz. https://a16z.com/2020/02/16/the-new-business-of-ai-and-how-its-different-from-traditional-software/
- Casado, M., & Lauten, P. (2019, May 9). The Empty Promise of Data Moats. Andreessen Horowitz. https://a16z.com/2019/05/09/data-network-effects-moats/



