



IMVC 2026

The Scientific Image Arms Race

How we detect AI-generated figures in the wild.

Dori Gatton

Data Compass AI · Proofing

Proofing



Why this matters

The Stanford Daily

News • University

Stanford president resigns over manipulated research, will retract at least three papers

Marc Tessier-Lavigne failed to address manipulated papers, fostered unhealthy lab dynamic, Stanford report says

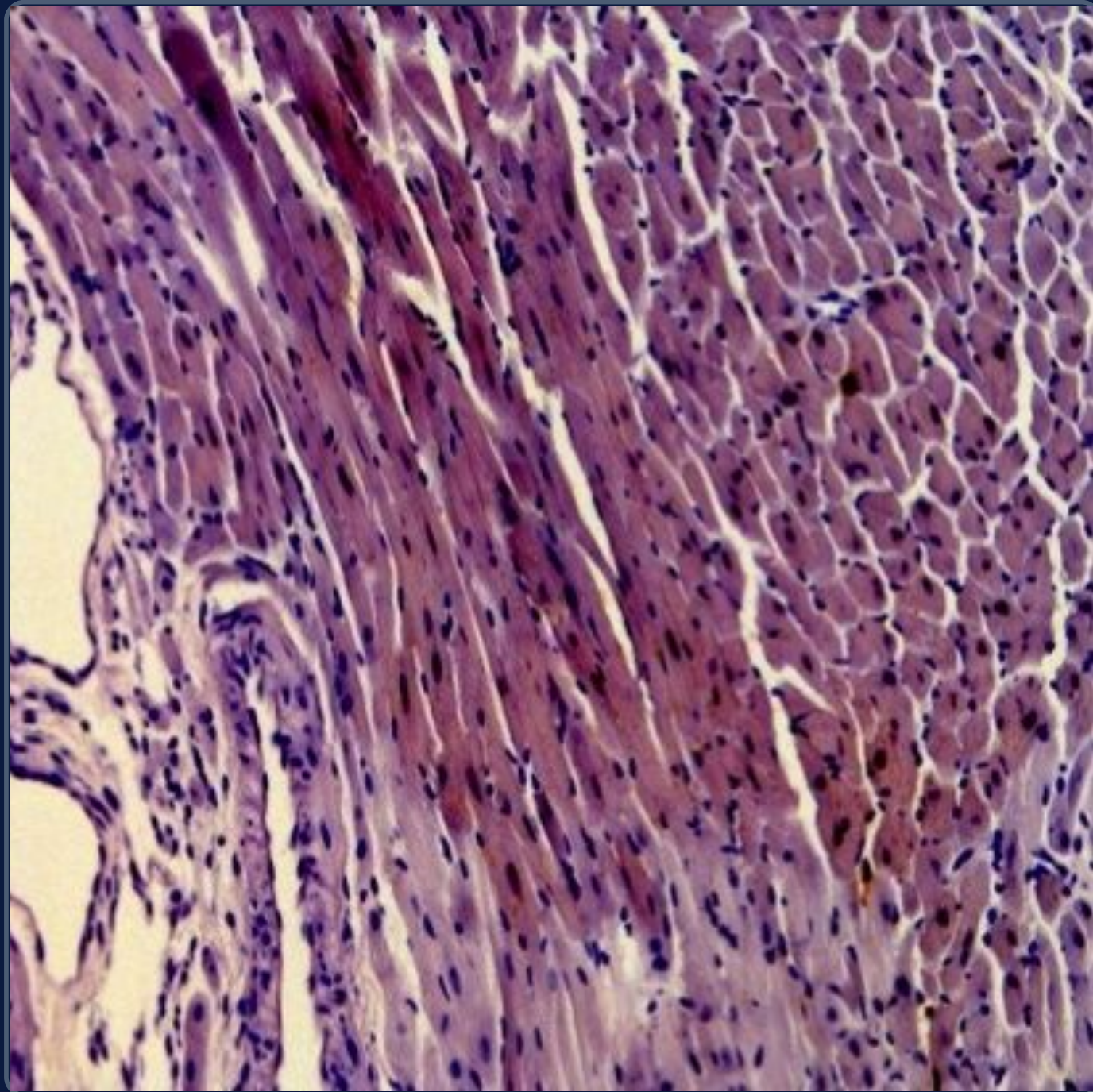


Stanford's President Marc Tessier-Lavigne walks through Stanford's Main Quad minutes after receiving questions for The Daily's article that was published Friday morning; he declined to be interviewed. (Photo: NIKOLAS LIEPINS/The Stanford Daily)

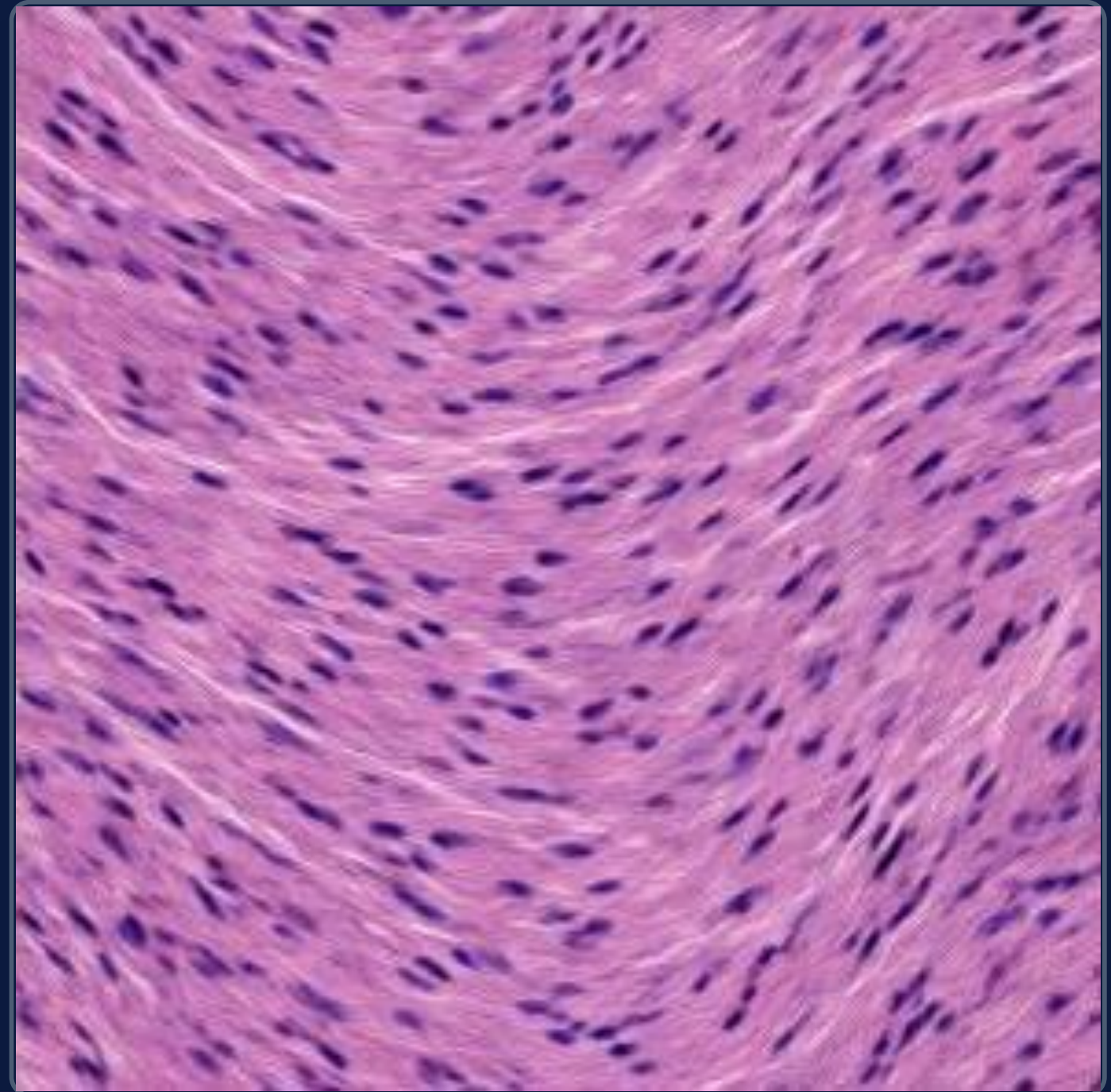
By **Theo Baker**
July 19, 2023, 10:06 a.m.

Which one is real?

A



B



Even experts can't reliably tell

Experts scored ~55%

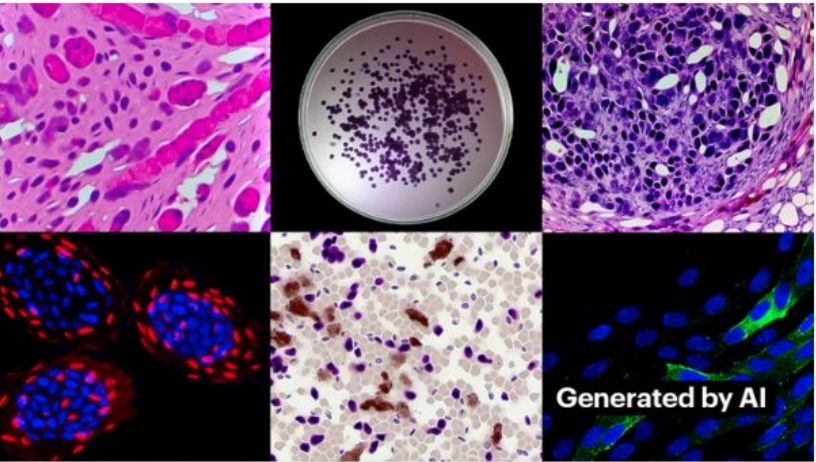
NEWS | 05 November 2024

AI-generated images threaten science – here’s how researchers hope to spot them

Generative-AI technologies can create convincing scientific data with ease – publishers and integrity specialists fear a torrent of faked science.

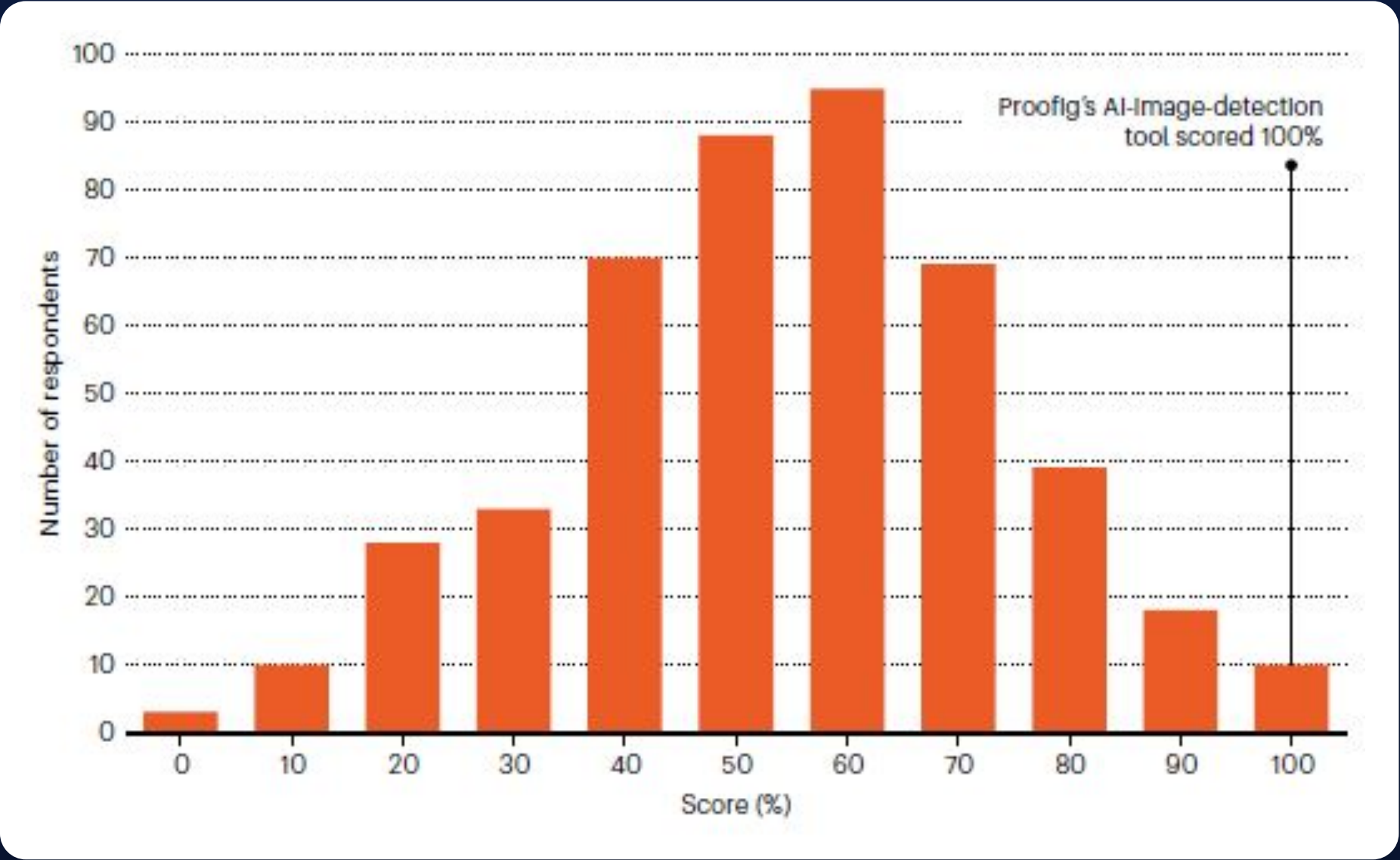
By [Diana Kwon](#)





All of these images were generated by AI. Credit: Proofig AI, 2024

From scientists manipulating figures to the mass production of fake papers by [paper mills](#), problematic manuscripts have long plagued the scholarly literature. [Science sleuths work tirelessly](#) to uncover this misconduct to correct the scientific record. But their job is

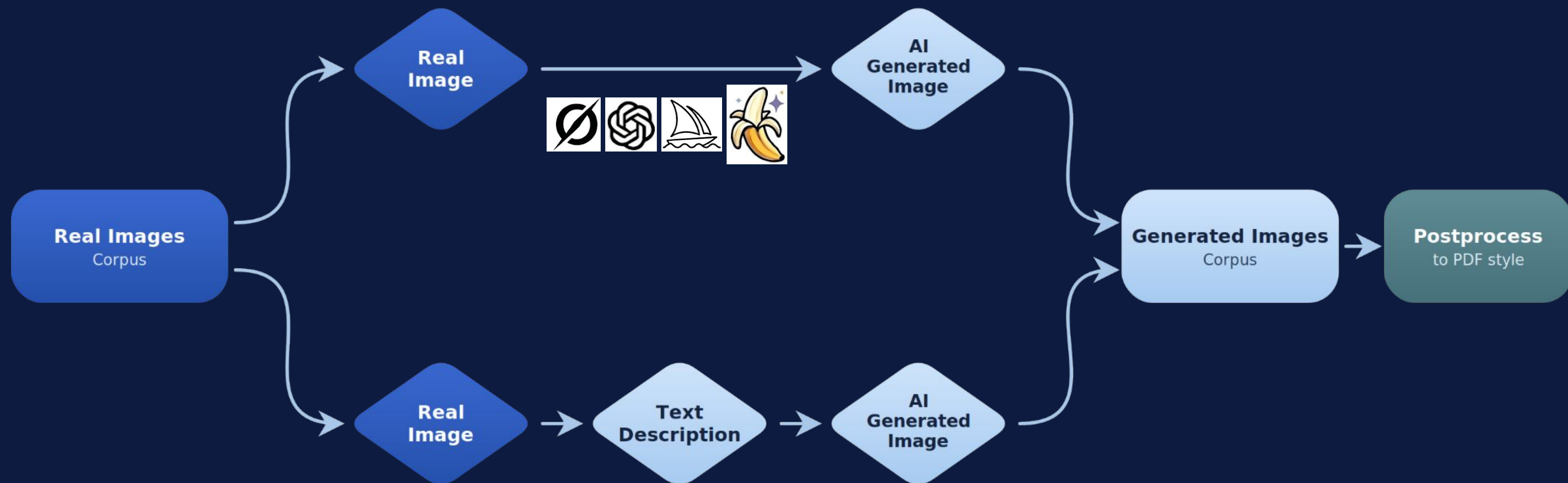


Model vs Data Centric AI



ANDREW NG · FOUNDER, DEEPLARNING.AI

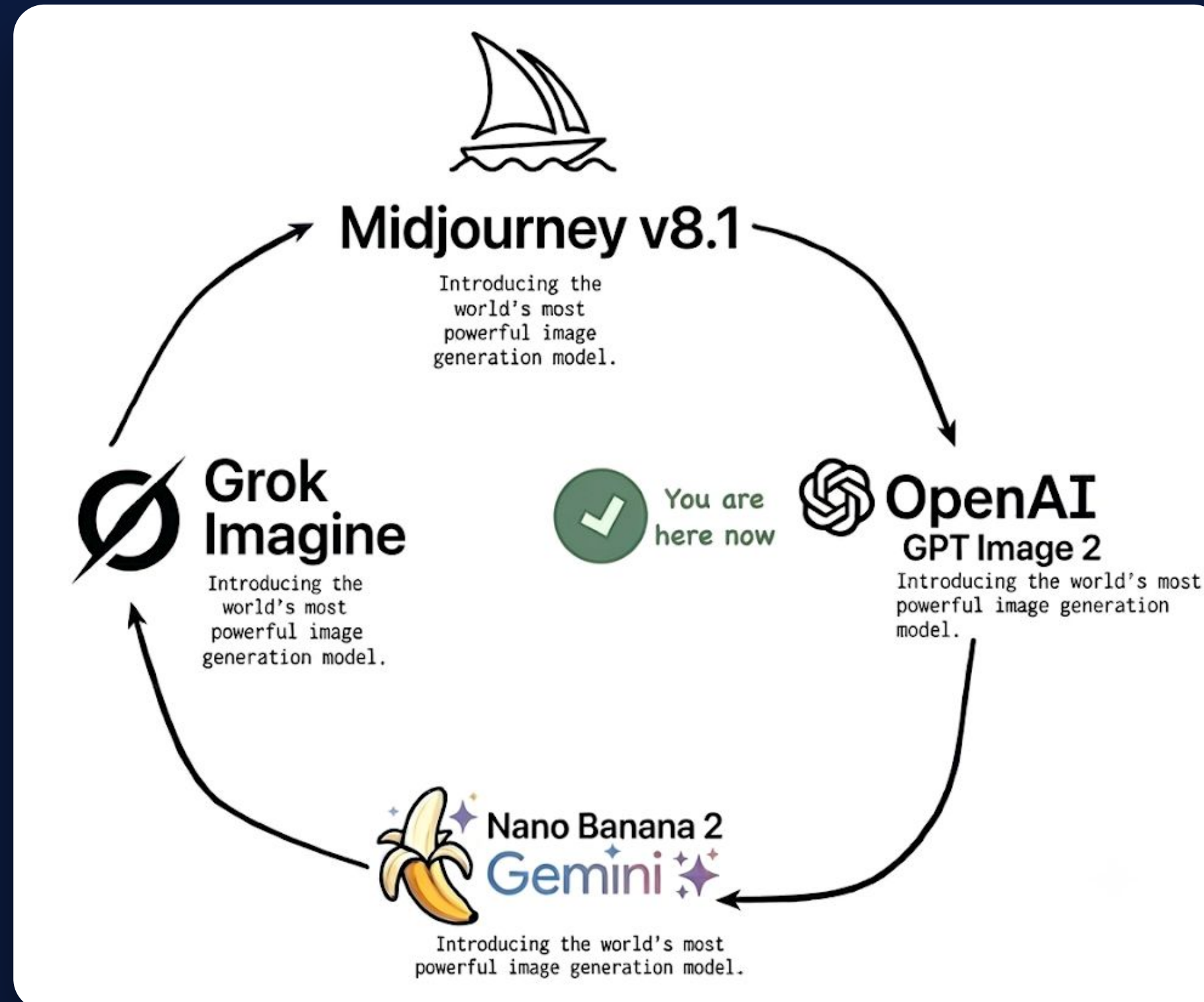
Getting the data



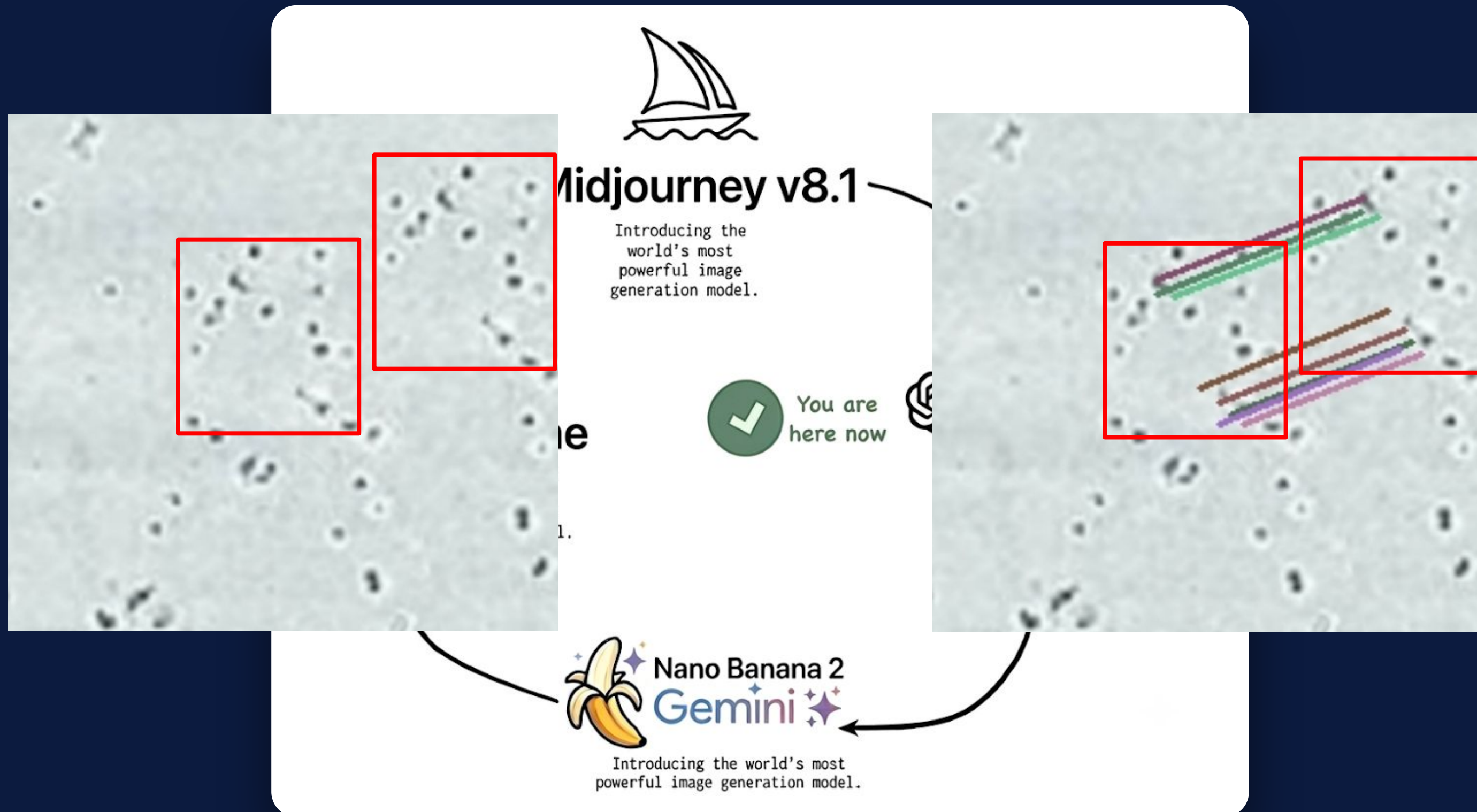
Evaluation



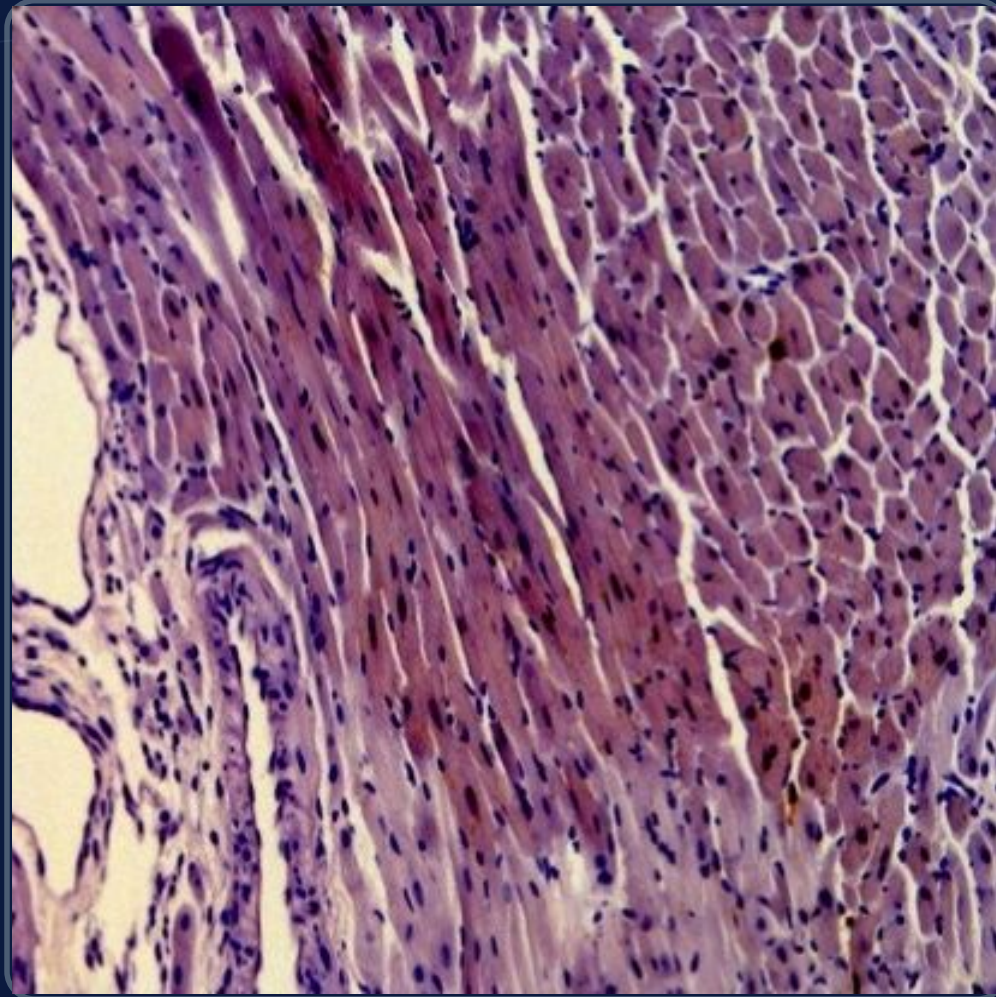
Arms race & Limits



Arms race & Limits

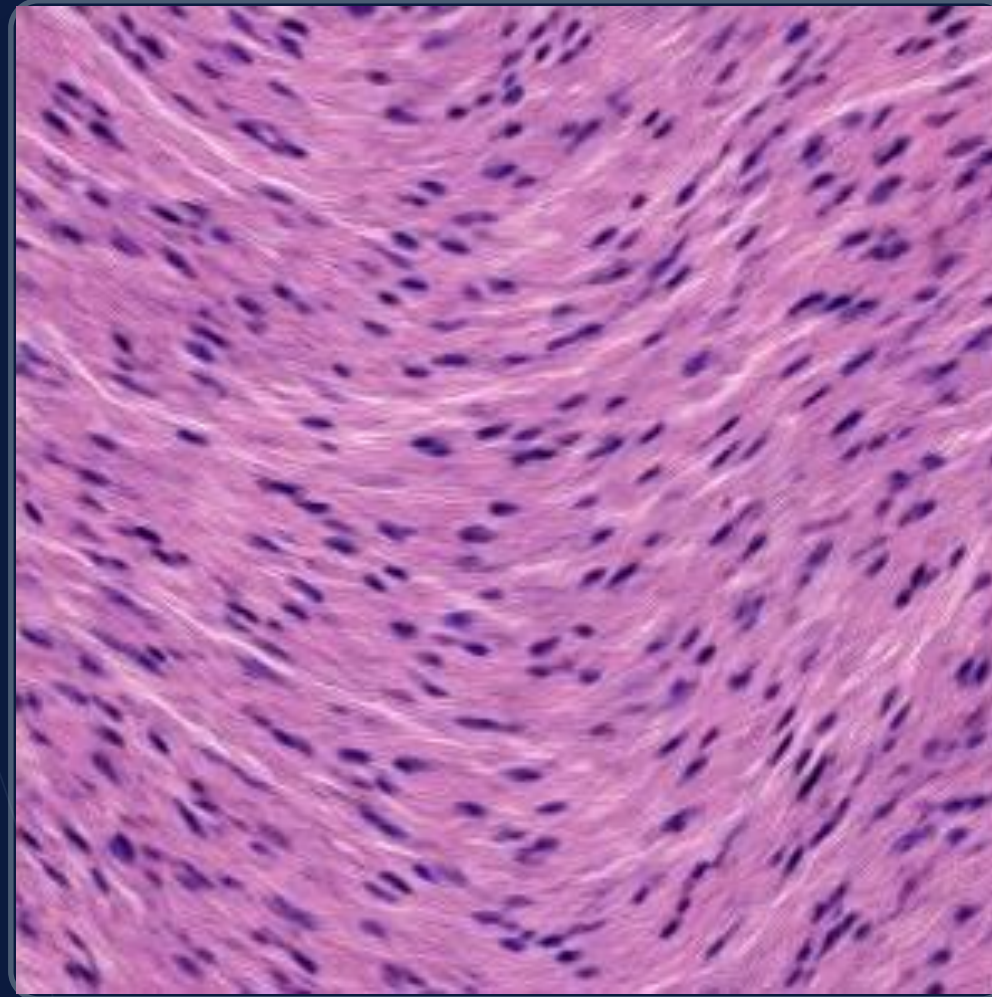


Thank you



A

REAL



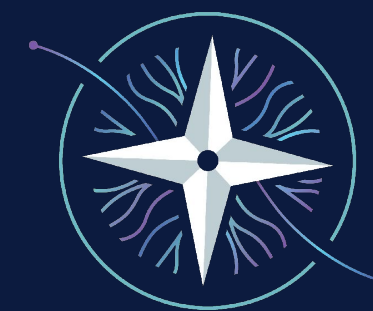
B

AI-GENERATED



Come see us at our booth!

Dori Gaton · Data Compass AI · Proofig



DATA
Compass AI