PART 2: EASY TO DISCUSS THE AI HYPE, BUT WHAT ABOUT SUBSTANCE

Christopher Gannatti — Global Head of Research 06/28/2022

With a topic as exciting as <u>artificial intelligence (AI)</u>, it's easy to get wrapped up in the hype. Gartner has even delineated its 'Hype Cycle' to more or less codify the emotional journey that frequently accompanies advancements in technology. It's easy to see a new achievement and how exciting it is, but in thinking about an investment thesis, it's important to step back from the emotion and consider where the rubber really meets the road.

Anthem: What Does 'Doing Al' Actually Look Like?²

A Company Using Al

Anthem Inc. is a health insurance company. It was recently reported that Anthem would be working with Google Cloud to generate 1.5 to 2 petabytes of synthetic data.

Pausing for a moment—what is a 'petabyte'? We are more familiar with gigabytes, in that a two-hour movie might take up 2-4 gigabytes, depending on the video quality used. One terabyte is roughly 1,000 gigabytes and 1 petabyte is 1,000 terabytes. So, a petabyte is it 1 million gigabytes, the unit with which we are more familiar.

Meta Platforms is building a research super cluster focused on training models on an exabyte of data—which is the next step up, and 1,000 petabytes. One exabyte is roughly equal to 36,000 years of high-quality video.³

Secondly, what is 'synthetic data'? It could be real-world data that has been stripped of personal information and fully anonymized, or it could be completely artificial, generated from deep generative models. An interesting side benefit in using synthetic data, at least possibly, is in how it could mitigate certain biases that have been shown to exist in real world datasets.

So, why does Anthem need to generate 1.5 to 2 petabytes of synthetic data—what problems could that help in solving? The company says that the data will be used to validate and train Al algorithms that identify things like fraudulent claims or abnormalities in a person's health records. Anthem uses both Amazon Web Services (AWS) and Google Cloud for cloud computing, and the company decided to work more with Google for their capabilities in Al for this specific effort.

Black Knight: Bringing AI to Mortgage Data

On May 4, 2022, Intercontinental Exchange Inc. (ICE) agreed to buy mortgage-data firm Black Knight in a deal valued at \$13.1 billion. It is expected to close in the first half of 2023. ICE is known as an operator of exchanges, clearinghouses and other financial market infrastructure, but in recent years it has pivoted into participating in the growing digitization of the housing market. Prior to the Black Knight deal, ICE had purchased mortgage-software firm Ellie Mae for \$11 billion. It had also purchased Simplifile, a firm that facilitates the electronic processing of mortgage records.⁴

Black Knight itself started incorporating Al as a value-added service into their solutions in 2018. It was noticeable seeing AlVA, a mortgage Al digital assistant, being used. This came via the acquisition of HeavyWater in 2018. The company was also very acquisitive in the Al space with Collateral Analytics (automated Al-based real estate data analytics), eMBS (cloud-based analytics platform), Top of Mind (Al-based CRM software) and Optimal Blue (automated loan origination platform). Software solutions represented more than 80% of Black Night's revenue at the close of 2021.⁵

Synopsys: Part of the Foundation for 'Smart Everything'

Synopsys posted a second-quarter profit of \$294.8 million, which topped analyst expectations. The market responded particularly well to the firm increasing full-year revenue guidance to a range of \$5.0 billion to \$5.05 billion, up from a prior target of \$4.78 billion to \$4.83 billion⁶.

Synopsys is an electronic design automation company, and it is particularly strong in field effect transistor design, which



could provide growth opportunities. Customers of Synopsys include most of the major semiconductor companies. In thinking of the market opportunity for Synopsys, one must consider the increasing demand for 'smart everything.' In their investor presentation, Synopsys included a forecast that deep learning chipset revenues could reach \$72 billion by 2025, from a level of less than \$10 billion in 2018.⁷

Splunk: Resilience in the Face of Economic Turmoil

Splunk delivered stronger results than the market community was expecting when it reported its results for the quarter ended April 30, 2022. Revenue increased to \$674 million, a 34% increase over the prior year. Cloud revenue was \$323 million, up 66% year over year for the specific segment. Company leadership indicated that Splunk is not at risk of much impact from current <u>macroeconomic</u> issues because company security budgets do not appear at risk.⁸

Silicon Motion: Being Acquired by MaxLinear

In early May 2022, it was announced that the Taiwan semiconductor firm Silicon Motion Technology agreed to be acquired by MaxLinear in a deal valued at \$3.8 billion. Silicon Motion has over 20 years of experience developing specialized processor integrated circuits that deliver market-leading storage solutions that are used in data centres, personal computers, smart phones and in commercial and industrial applications. The portfolio of controller intellectual properties is extremely broad. 10

Palo Alto Networks: Al and Machine Learning Could Add Value Across Entire Platform

The Russia/Ukraine conflict has kept a strong focus on cybersecurity so far in 2022, helping Palo Alto's results. Similar to Splunk, the company does not yet see heightened inflation causing pressure on companies' cybersecurity budgets. As Palo Alto Networks lays out their view of the market landscape, they clearly indicate that most companies want greater security, but less cybersecurity personnel, opening the door to innovative Al and machine learning solutions. In fact, they note that Al and machine learning should be core to their entire platform.¹¹

Conclusion: Don't Let the Hype Sour any View of the Action

Hype is dangerous—it can set the bar of expectation too high and lead to inevitable disappointment. Companies in 2022 are taking concrete actions with AI, and while we have listed a few here, this is far from the complete picture. For those interested in an investment vehicle designed to gain exposure to AI, consider the <u>WisdomTree Artificial Intelligence</u> and Innovation Fund (WTAI).

For holdings of WTAI, please click here.

- ¹ Source: https://www.gartner.co.uk/en/methodologies/gartner-hype-cycle
- ² Source: Isabelle Bousquette, "Anthem Looks to Fuel Al Efforts with Petabytes of Synthetic Data," *Wall Street Journal*, 5/17/22.
- ³ Source: Suman Bhattacharyya, "Meta Unveils New Al Supercomputer," Wall Street Journal, 1/24/22.
- ⁴ Source: Alexander Osipovich, "Intercontinental Exchange to Buy Mortgage-Data Firm Black Knight for \$13.1 Billion," Wall Street Journal, 5/4/22.
- ⁵ Source: Consumer Technology Association.
- ⁶ Source: Logan Moore, "Synopsys Stock Is Rising on Strong Review. Analysts See Growth Opportunities," *Barron's*, 5/19/22.
- $^{7} \hspace{0.1in} \textbf{Source: https://www.synopsys.com/content/dam/synopsys/company/investor-relations/corporate-overview-investor-q2-2022-final.pdf}$
- ⁸ Source: Eric J. Savitz, "Splunk Stock Rallies as Software Company's Results Top Estimates" *Barron's*, 5/25/22.
- ⁹ Source: Lina Saigoal, "Silicon Motion Technology Stock Soars after \$3.8 Billion MaxLinear Deal," Barron's, 5/55/22.
- ¹⁰ Source: https://siliconmotiontechnologycorporation.gcs-web.com/static-files/7708fce8-a220-49b6-8c11-5dd10b776f5f
- ¹¹ Source: https://s22.q4cdn.com/606234439/files/doc_presentations/2021/2021-Analyst-Day-Master-Deck_vF.pdf

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Macro: Focused on issues impacting the overall economic landscape as opposed to those only impacting individual companies.

