

FASTER ACTING R&D

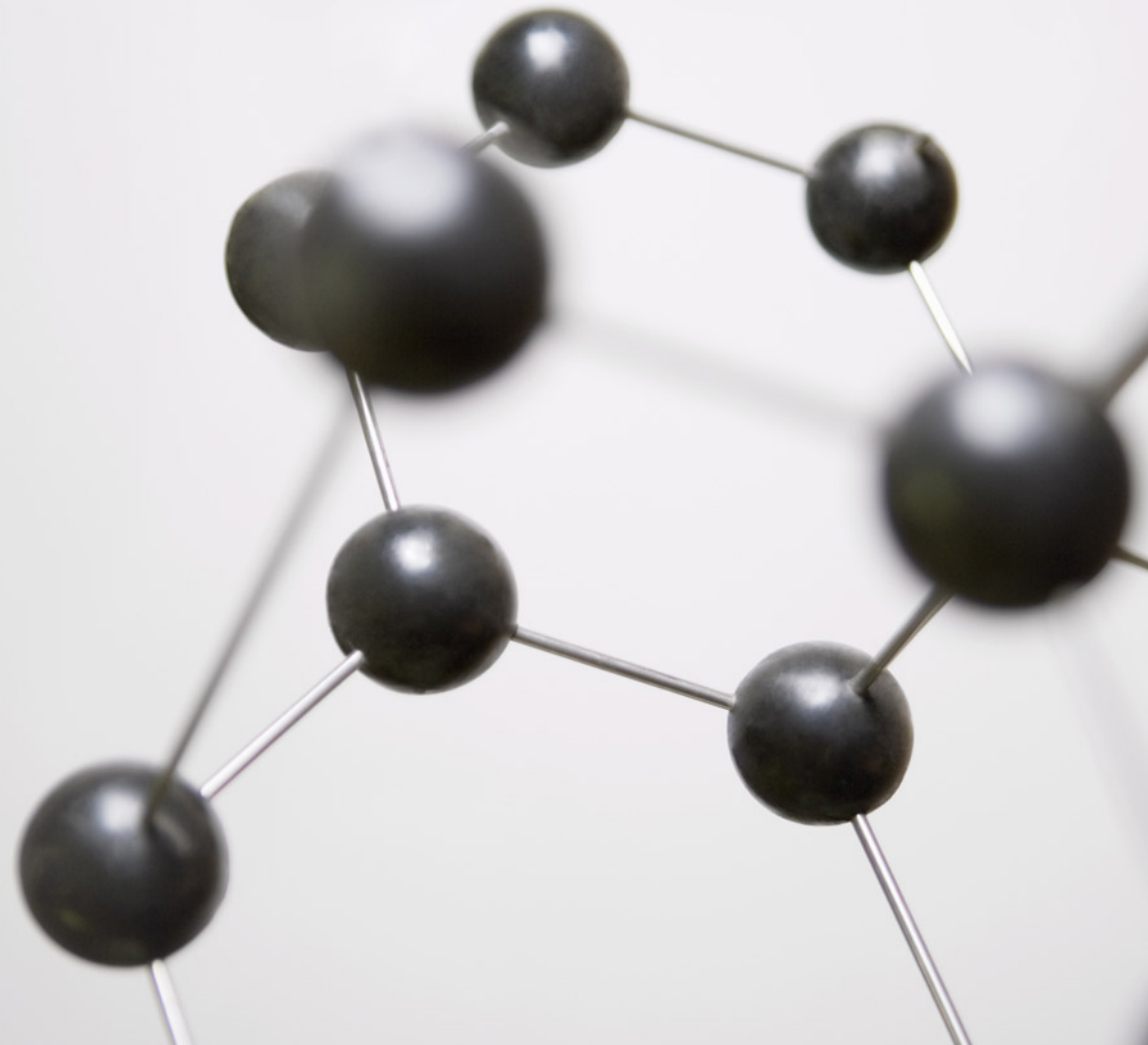
Machine Learning Driven Clinical Data Insights

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Have you been on an Uber ride today?

Or Have you unlocked your phone by looking at it?



CURRENT STATE

A typical enterprise Business Intelligence platform has three parts:

- a. **Data Staging:** We worry about how to acquire data from multiple sources and store it at a centralized location where possible
- b. **Data Processing:** Now that we have all the data in one-place (or not in some cases!) – the next step in the process before delivering it to business users is the transformation programming – typically done in languages such as SQL, SAS, Spark, Scala, Python or R etc.
- c. **Business Intelligence tools:** Once the data has been conformed to pre-specified data model, most organizations use commercial systems such as Spotfire®, Tableau® etc. to conduct data review, exploratory analysis etc.

The downside of this 3-step process is that, sometimes functional users go directly to source to review data or in-case a user waited to consume out of the standardized systems, there will be a 3 to 6-week delay (from my personal experience) in being able to derive insight – some pharma have figured out a happy-medium to shrink the 3-6-week period but hasn't entirely made it real-time.

Despite the 3-6 weeks, it is not an insight we deliver to scientific teams, we are still delivering numerous forms of “information” in dashboards, reports, visualizations etc. where the end user would have to sift-through to find interesting clinical events in most cases.

FUTURE STATE



THANK
YOU

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