

Illustrating current approaches with trucks

Big iron

Traditional solutions in big-business companies involve heavy mainframe hardware (e.g. IBM) and related software (e.g. SAS) in order to produce OLAP functionalities. (Online analytics processing).



See [this comparison of OLAP servers](#).

Splice Machine

Splice Machine wants to replace the "big iron" technological solutions, like, IBM-Oracle or [Teradata](#). For this Splice Machine has to be make their technologies to look and smell like big iron.

The makers of Splice Machine were told by big-business stakeholders that although Hadoop-and-Hive and Co. seem quick nobody wants them in that form. The stakeholders had too much software already written in SQL with typical database work-flows, interfaces, and interactions. And they didn't want to invest again in Java coders, coding, and time for Hadoop-and-Hive and Co.

Basically, a few hadoopers told companies which use bulldozers and big dump trucks that they can use much faster cargo planes flying in parallel. "Well no", was the response, "we use drivers and roads, not pilots and clouds."



Data analysis and mining

We can say that this is what I do most of the time. (Not necessarily because I want to.)

It is important to have good programming skills, utilize multiple paradigms, and be willing to dive in. Also, it is important not to forget how you got into the mess you cannot get out of.



Note the small cargo volume – the practice of explorational data mining is to find and take away (small) data nuggets.

Ideal machine learning framework design

The ideal (prediction, analysis) framework does automatic delivery of results with minimum human involvement using well defined problems and interfaces.

And, yes, GIGO. (Garbage in, garbage out).



Conversational agents

This corresponds to what I am currently trying to do with [natural language processing and cohort statistics](#).

Meaning, I am designing a (supposedly) robust device using no real interaction data for a complex problem that is easy to explain.

