

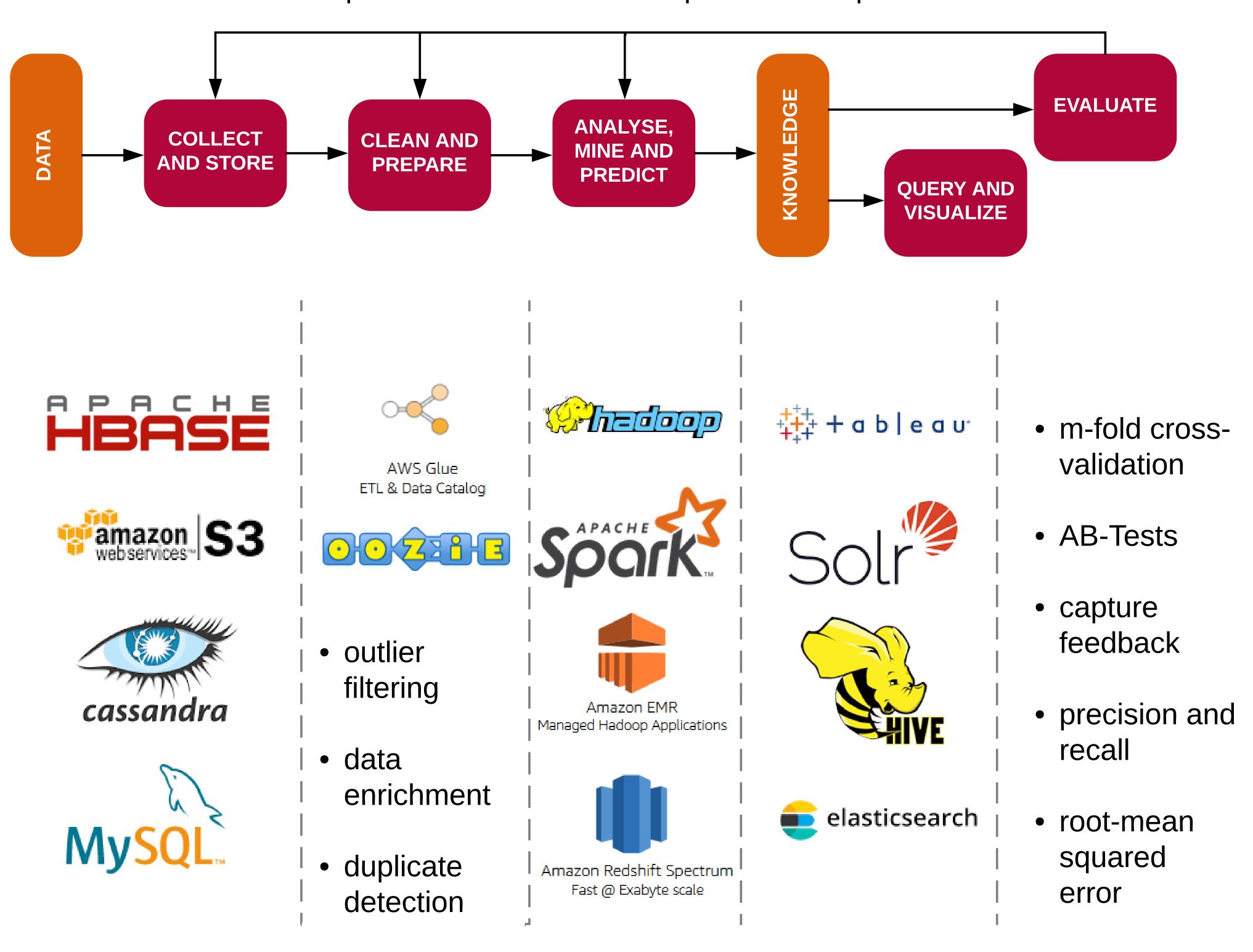
Data Engineering in der Praxis An Overview

Abstract

This poster shows an overview of technologies and puts them in context of the data engineering process. The overview focuses mainly on batch-processing technologies and does not show the stream-processing technologies introduced in the lectures.

The process

In the diagram below you can see the coarse process of data engineering. Many of the lectures* showed similar processes to this one or specialized in parts of it.



Technologies

Below the process different tools and techniques are shown that were introduced in some of the lectures*. Their ordering represents in what part of the process these tools and techniques are typically useful but also in which order you would typically use them (e.g. oozie is not cleaning or preparing data, but it is used before the next step of the process). Of course, this overview of technologies is not complete. Furthermore, each step of the process blends together with the other steps and each technology has a wide variety of use cases and could be used in other parts of the process as well.