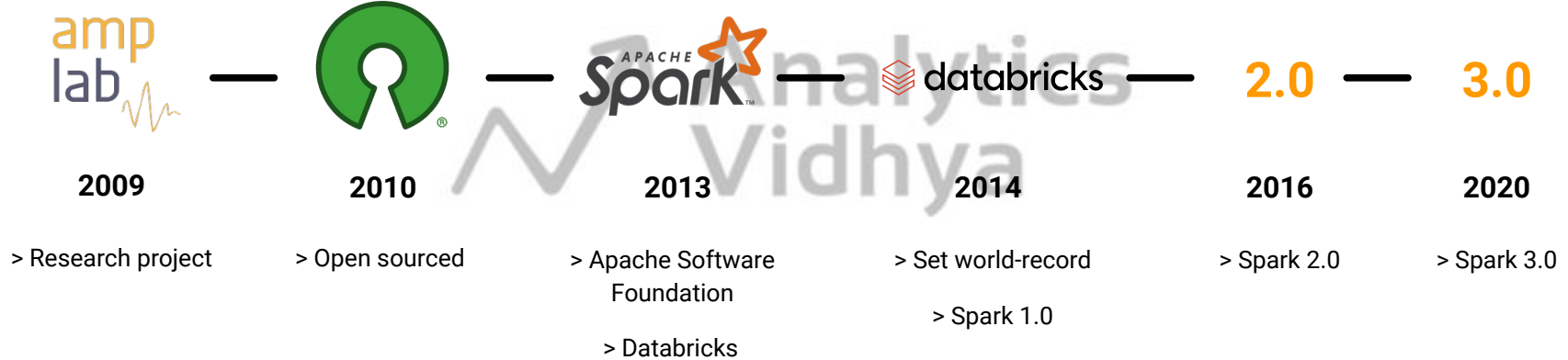


Introduction to Apache Spark

What is Apache Spark?

Apache Spark is a parallel data processing engine for big data and machine learning applications designed to run on a cluster of computers.

History of Apache Spark



Features of Apache Spark

- Polyglot
- Flexibility
- Unified Engine
- In-memory computation
- Real-time Stream Processing

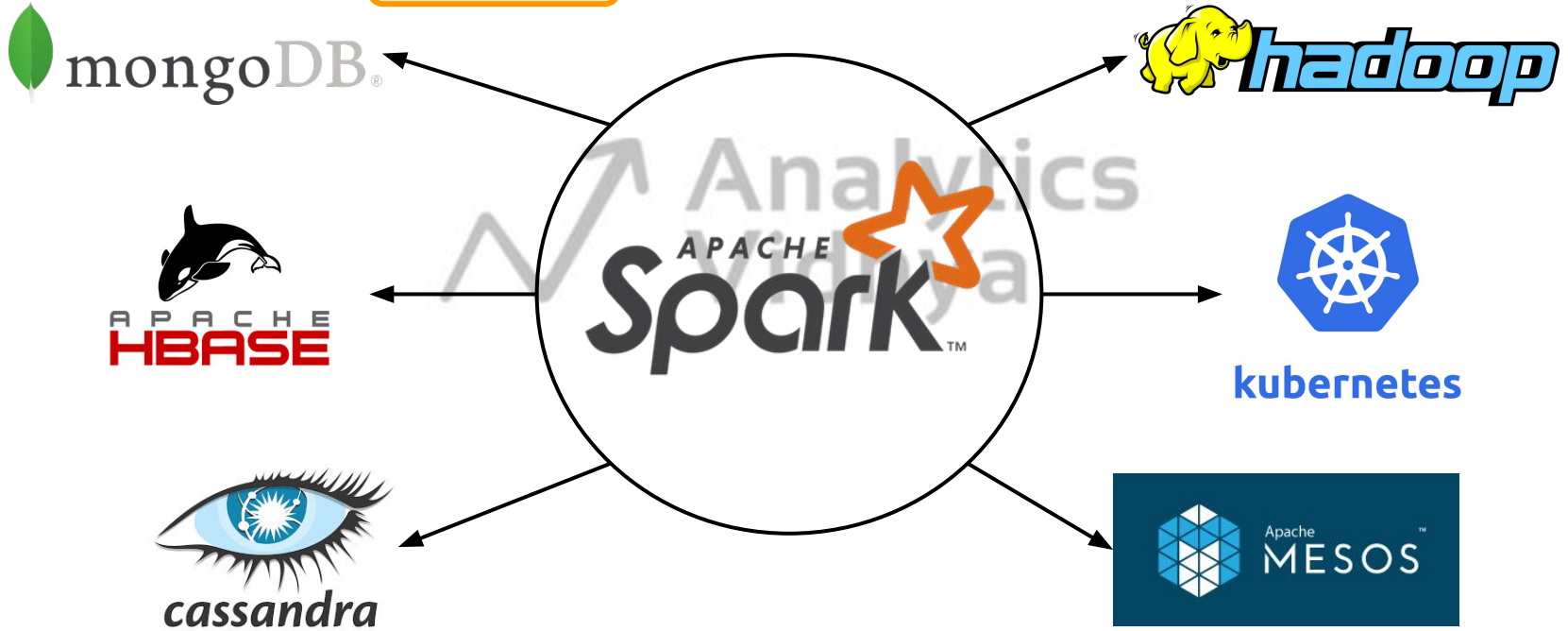


Polyglot

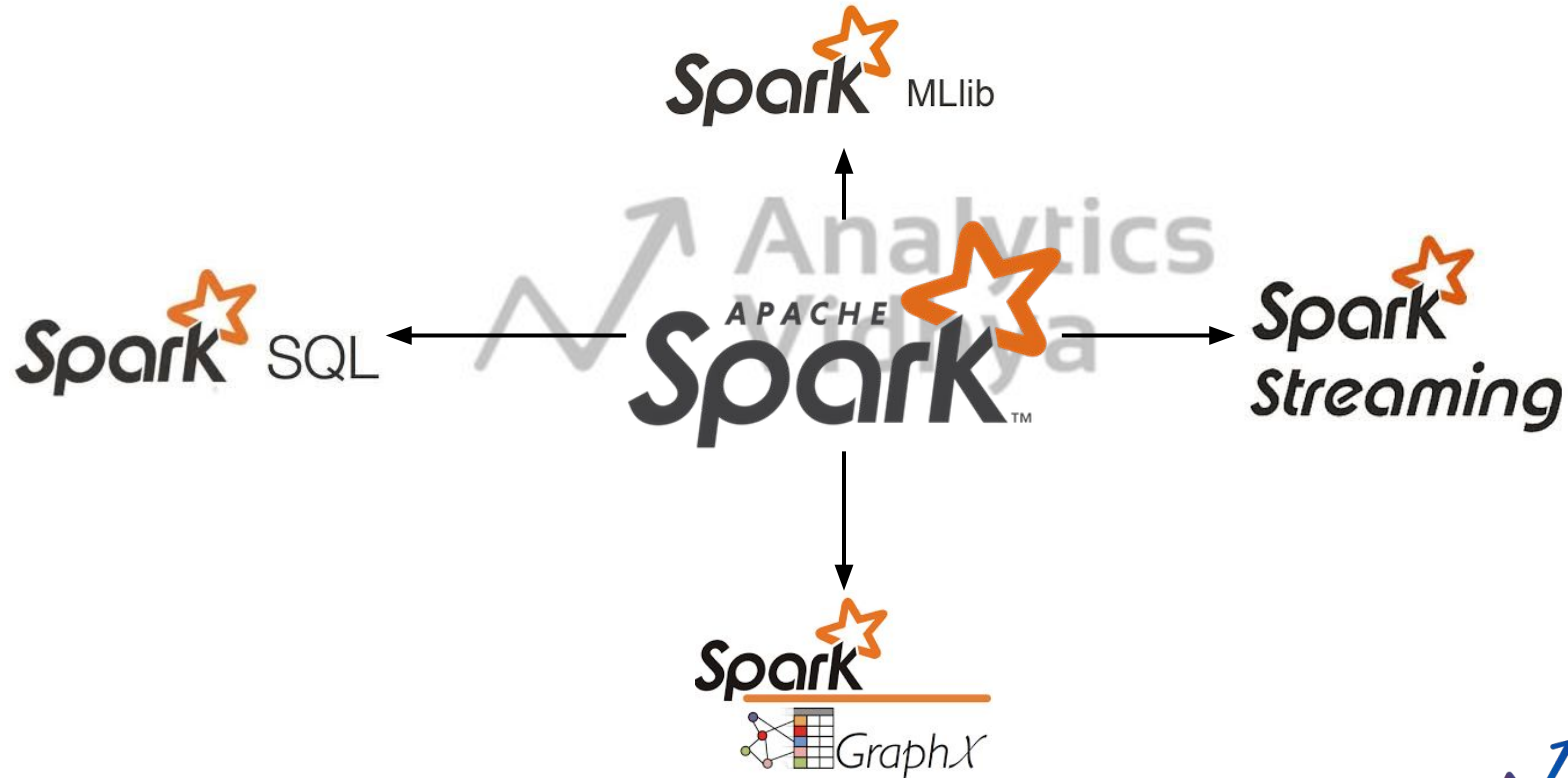


Flexibility

Many more!!

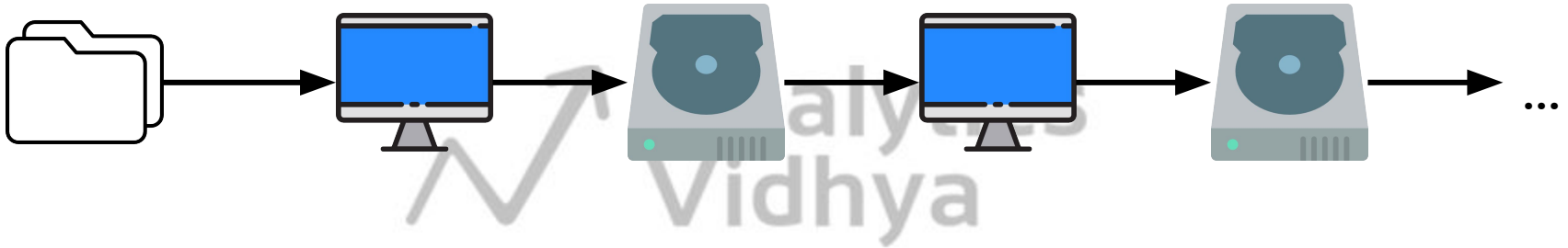


Unified Engine

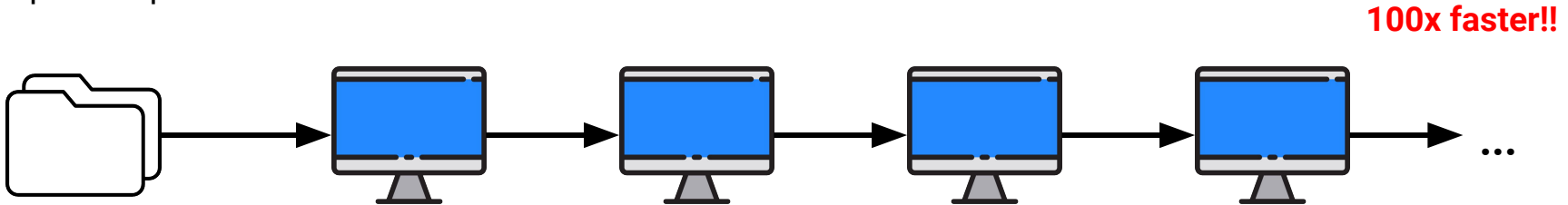


In-memory computation

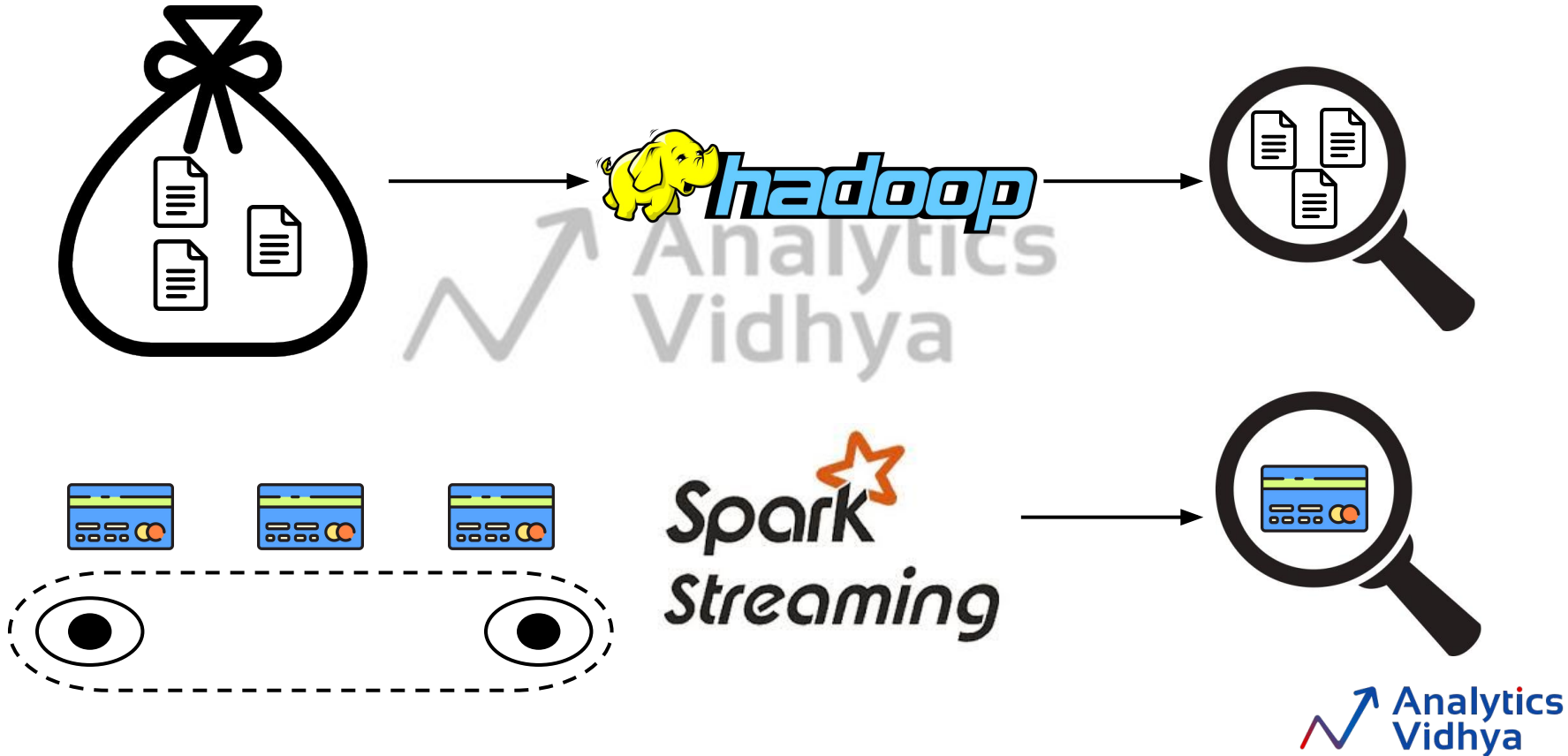
Hadoop MapReduce



Apache Spark



Real-time stream processing



Use cases of Apache Spark

Use cases of Apache Spark

The Uber logo is displayed in white text on a black rectangular background. The word "Uber" is centered within the rectangle. In the background, there is a faint, light gray watermark that reads "Analytics Vidhya".

Uber

- 103 millions monthly ride hailers in over 900 cities worldwide
- 100, 000+ Spark applications run everyday
- Diverse data sources: HDFS, Hive, Cassandra, MySQL, and more

Use cases of Apache Spark



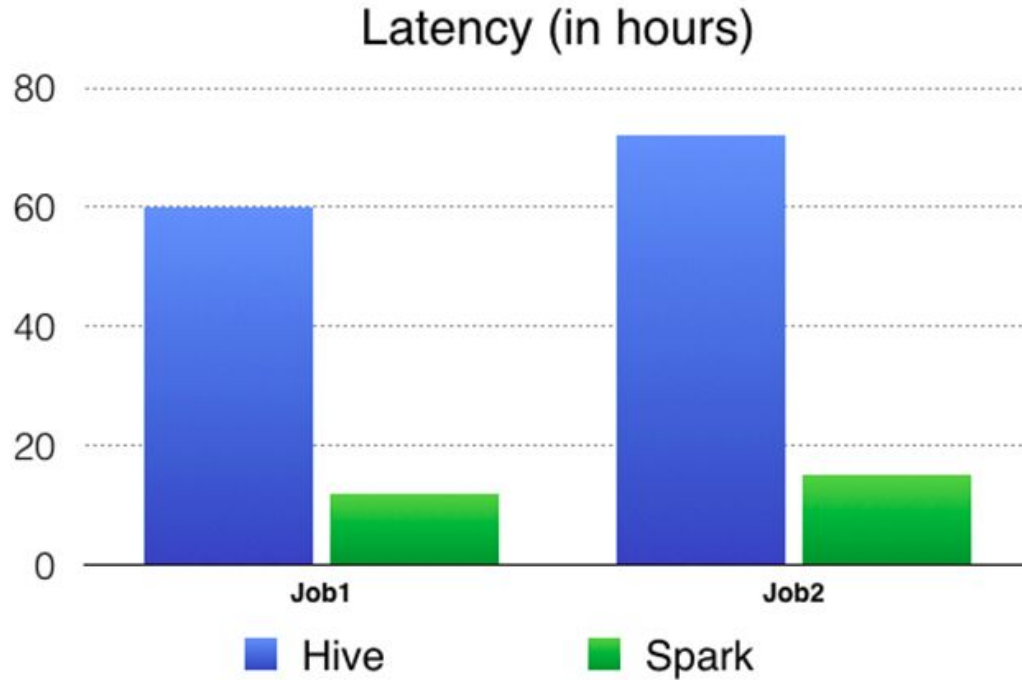
- 200 million paid-subscribers
- Content personalization
- Spark streaming for personalized videos on homepage

Use cases of Apache Spark

facebook

- More than 2 billion monthly users
- Hive for multiple analytics tasks
- Hive vs Spark

60 TB data handled with Hive and Spark





Thank you!