Lesson 8

Applications and Big Data analytics using Spark

"Big Data Analytics ", Ch.05 L08: Spark and Big Data Analytics
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Spark Stack

- Provides support to applications for analysis of huge data from multiple sources and Data Stores

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Analytics

- Discover, interpret, and communicate meaningful patterns in data
- Analytics software combine the most current methods of computer science, statistics and mathematics

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Analytics

- Analytics also use machine learning and neural networks, which enable predictive modeling and decisions

- Analytics use data mining, pattern mining, cluster analysis and detect anomalies.

Tools for Analytics

- Examples of open source tools for analytics ▬ Python, R, Apache Spark, Apache Storm, Mahout, Pig, Hive.
- Commercial tools▬ SAS, Tableau, Excel, QlikView and Splunk

Figure 5.10 Processing framework for applications and Big Data analytics using Spark

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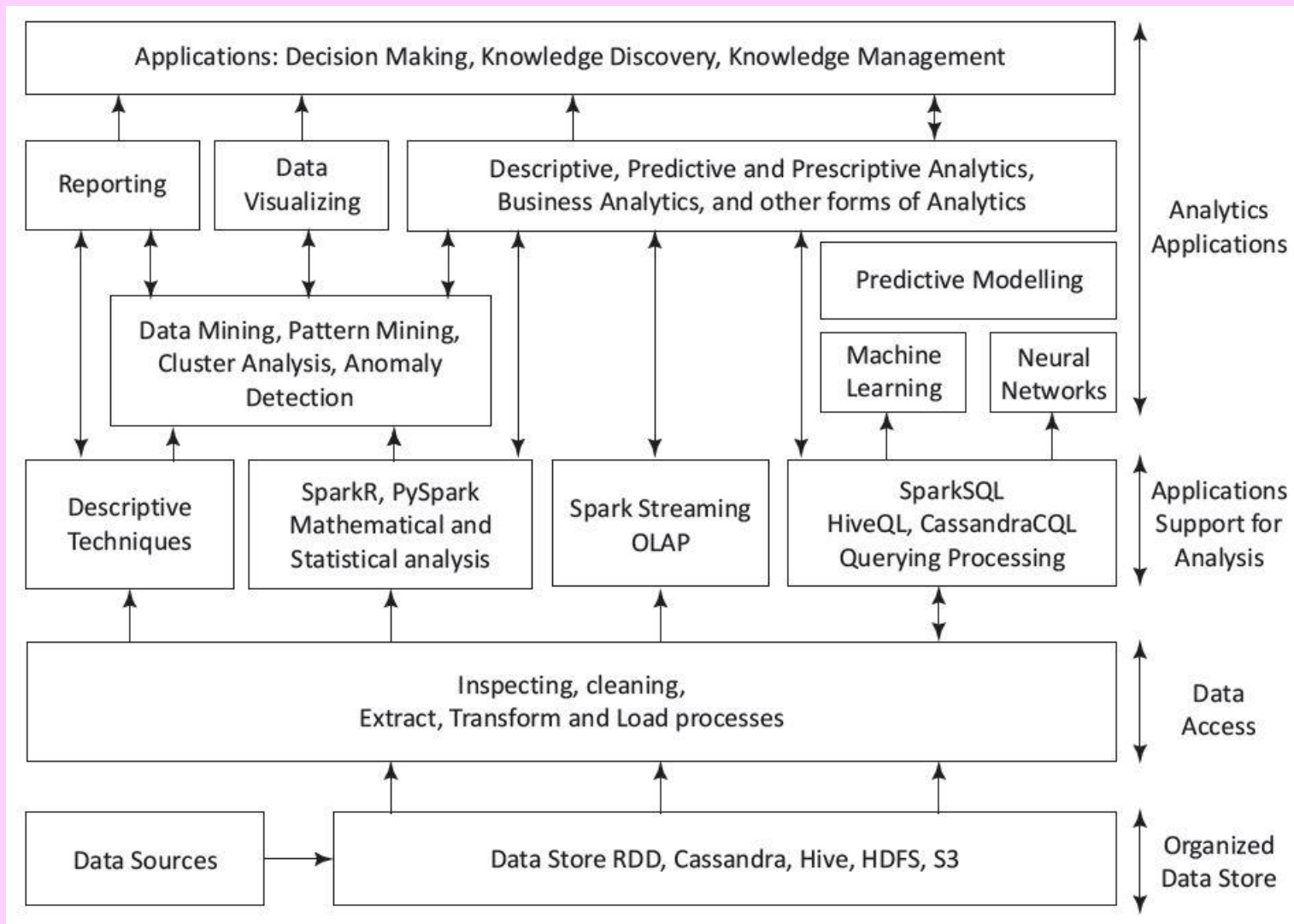
Applications

- Use the results derived from the descriptive, predictive and prescriptive analytics, business analytics and other forms of analytics

- Use the results derived from reporting and visualizations

Applications

- Common applications─ decision making about further actions required, knowledge discovery and knowledge management

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Example 5.15

Explains usage of analytics

- Manufacturing company for toys and puzzles

- Company for Selling its products through ACVMs

- Help a manufacturing, sales and service company for cars of different models

Summary

We learnt :

- Analytics

- **Processing framework for applications and Big Data analytics using Spark**

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End of Lesson 8 on
Applications and Big Data analytics using Spark

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