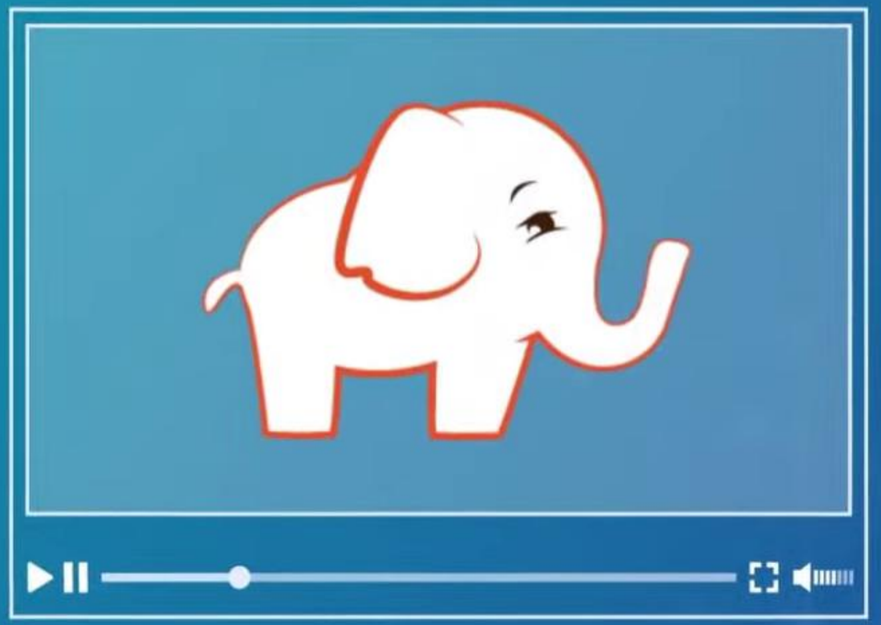
LIVE

How To Become a Big Data Engineer?

- Who is Big Data Engineer?
- Big Data Engineer Roles and Responsiblity
- Learn the skills required for Big Data Engineer



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AGENDA

- ✓ Who is a Big Data Engineer?
- ✓ What do a Big Data Engineer do?
- ✓ Big Data Engineer Responsibilities
- ✓ Big Data Engineer Skills
- ✓ Big Data Engineering Learning Path

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Who is a Big Data Engineer?

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Who is a Big Data Engineer?

Data Engineers are the ones who

the complete architecture of the large-scale processing system.

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What does a Big Data Engineer do?

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What does a Big Data Engineer do?

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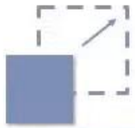
What does a Big Data Engineer do?

Design, Develop, Construct, Install, Test & Maintain the complete data management & processing systems



Building highly scalable, robust & fault-tolerant systems

Taking care of the complete ETL(Extract, Transform & Load) process

Ensuring architecture is planned in such a way that it meets all the business requirements

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What does a Big Data Engineer do?

Discovering various opportunities for data acquisitions and exploring new ways of using existing data

Proposing ways to improve data quality, reliability & efficiency of the whole system

Creating a complete solution by integrating a variety of programming languages & tools together

Creating data models to reduce system complexity and hence increase efficiency & reduce cost

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What does a Big Data Engineer do?

Deploying Disaster Recovery Techniques

Introducing new data management tools & technologies into the existing system to make it more efficient.

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Big Data Engineer Responsibilities

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Big Data Engineer Responsibilities

Data Ingestion

Acquiring data from the various sources & then ingesting it into the data lake

Data Transformation

Converting data from one format to other, or from one structure to another based on the use-case

Performance Optimization

Building a system which is both scalable & efficient

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Big Data Engineer Skills

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Big Data Engineer Skills

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Big Data Frameworks

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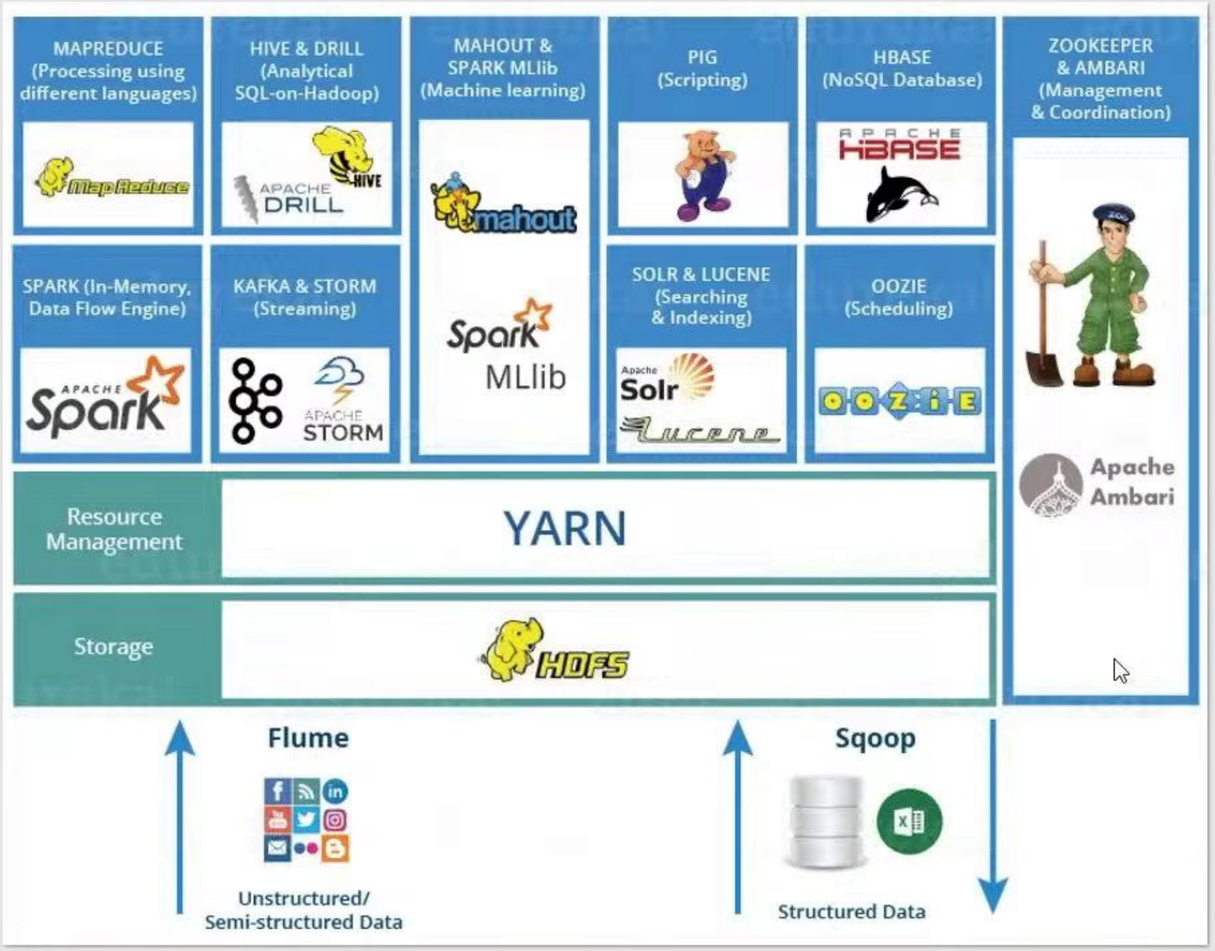
Big Data Engineer Skills



Big Data Engineer Skills

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Real-Time Processing Framework

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Big Data Engineer Skills

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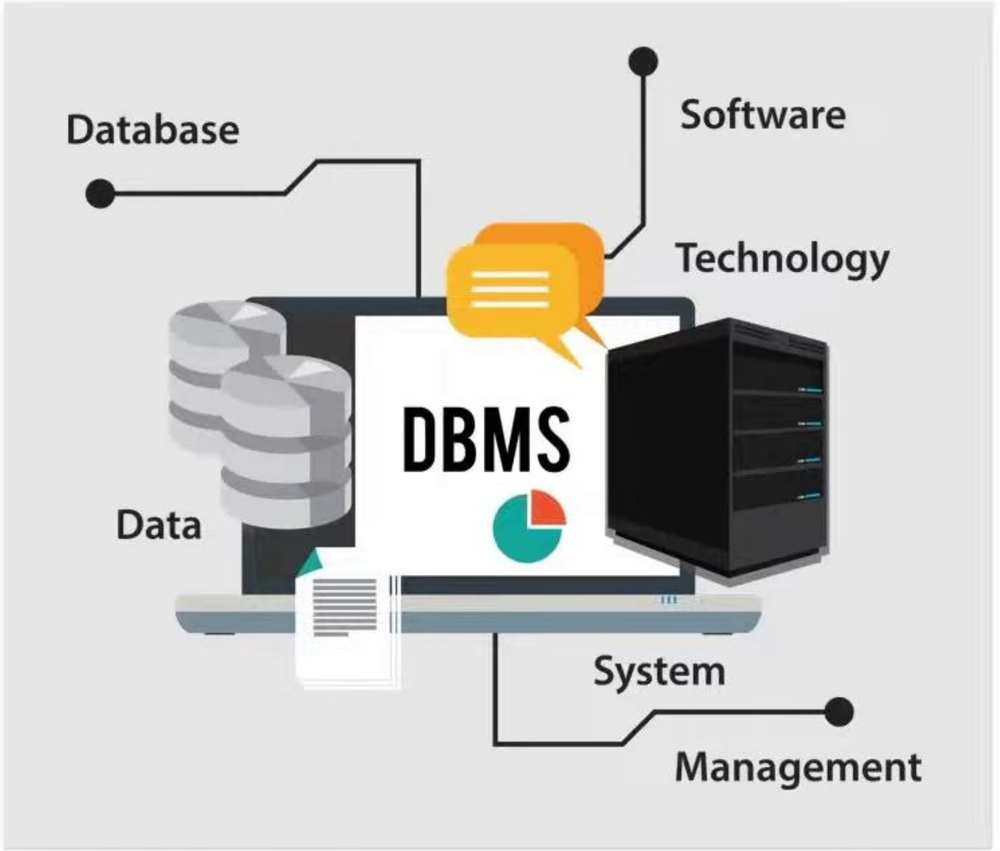
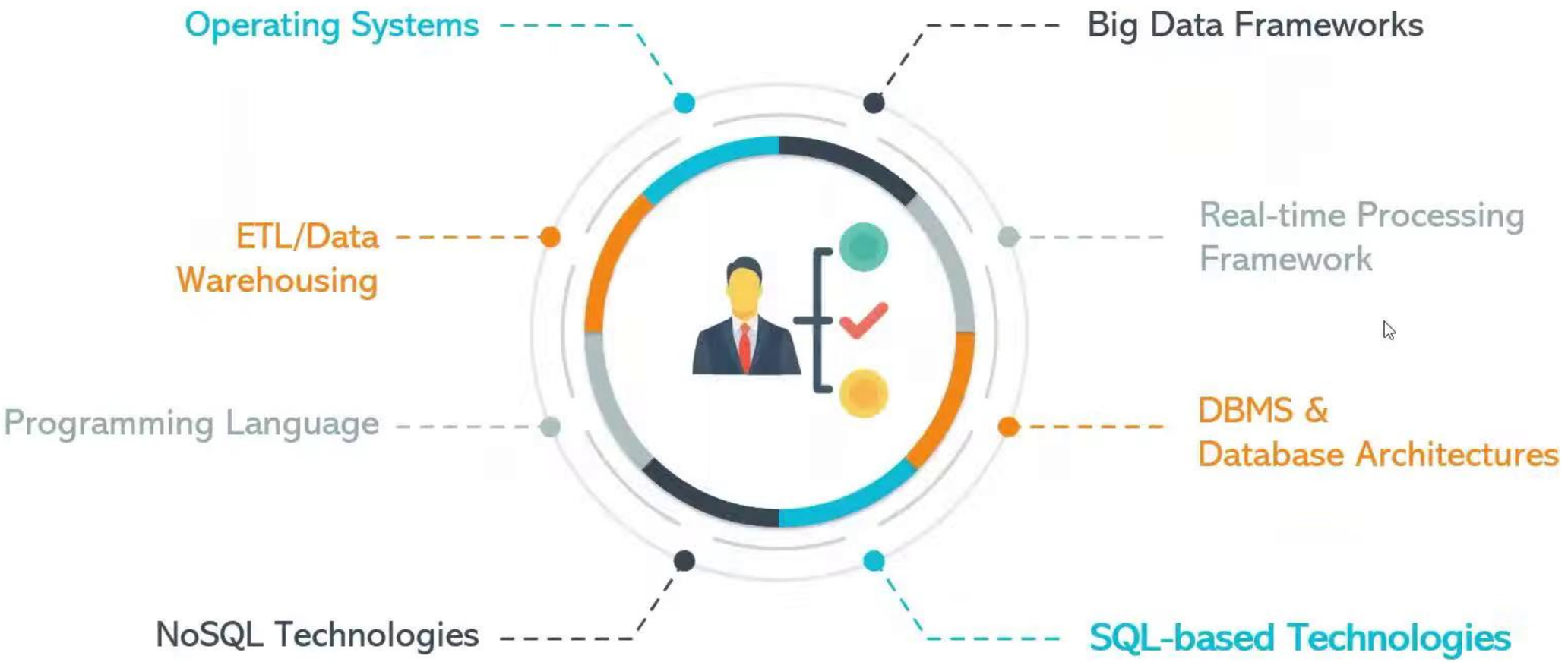
DBMS & Database Architectures



Big Data Engineer Skills



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SQL-based Technologies

MySQL

ORACLE DATABASE

Microsoft SQL Server

SQLite

IBM DB2

PostgreSQL

NoSQL Databases

cassandra

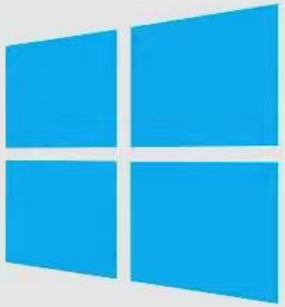
APACHE HBASE

mongoDB.

Programming/Scripting Languages

ETL/Data Warehousing

Operating Systems



UNIX

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Big Data Engineering Learning Path

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