

Big Data Engineering vs Big Data Analytics

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Analyst SDE

Some Roles in the Data World

Data
Engineer

Big Data
Engineer

Cloud Data
Engineer

Data
Analyst

Data
Scientist

ML
Engineer

AI
Engineer

MLOps
Engineer

Data
Architect

High Level Domains in Data Roles

Data Platform and Infrastructure

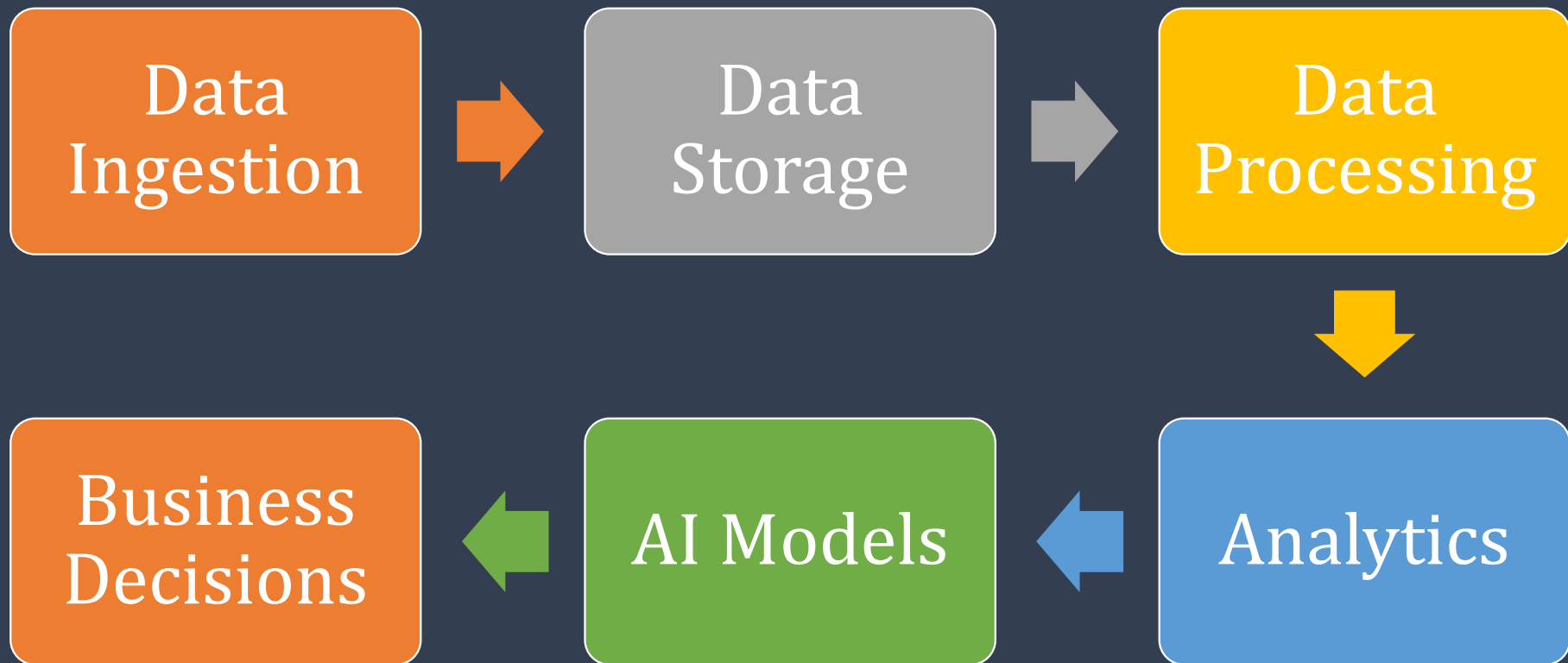
Data Engineering and Development

Data Analytics and Business Intelligence

AI and Machine Learning

Data Operations

Data Lifecycle



Big Data Engineering

Ingest data from multiple sources

Build ETL/ELT pipelines

Design data lakes

Optimize distributed processing

Work with cloud infrastructure

Ensure fault tolerance

**System
thinking**

**Problem-
solving**

**Optimization
mindset**

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Apache Spark

Apache Kafka

Databricks

Hadoop

SQL

Python

AWS / Azure / GCP

Big Data Analytics

Extracting insights

Data exploration

Statistical analysis

Machine learning

Business intelligence

Spark SQL

Python
(Pandas, ML libraries)

Power BI / Tableau

Excel

SQL

**Storytelling
with data**

**Business
understanding**

Communication

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What interests you?

Thank You