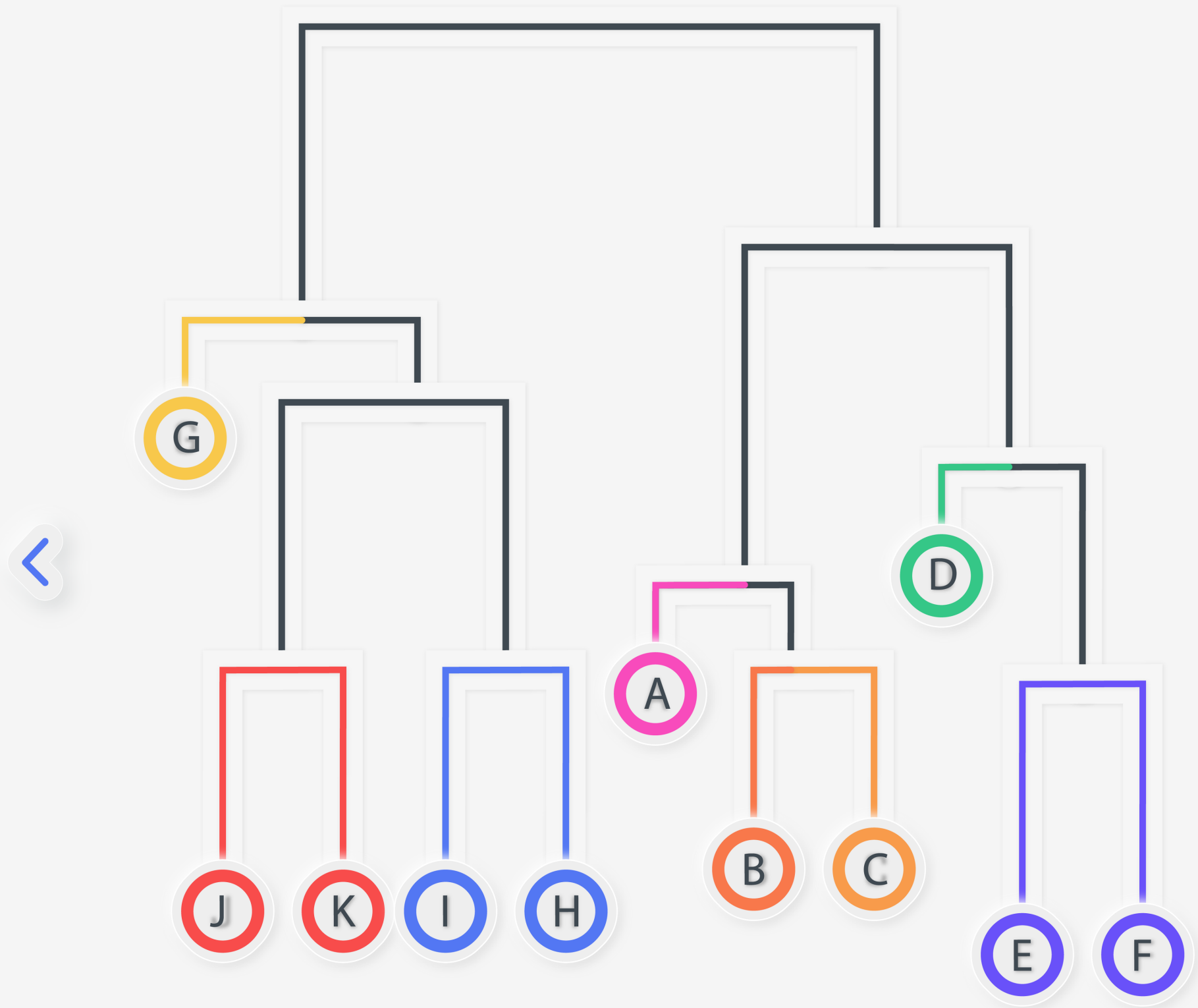


# HIERARCHICAL CLUSTERING IN ML



# HIERARCHICAL CLUSTERING IN ML



# What is hierarchical clustering?

It is a method of **cluster analysis which builds tree type structure** based on the hierarchy

---

**2 types** of hierarchical cluster analysis strategies:

1. Bottom-up Approach (Agglomerative Clustering)
2. Top-down Approach (Divisive Clustering)



DATA-DRIVEN  
SCIENCE

# Agglomerative Clustering

---

## Bottom-up Approach

Bottom-up algorithms treat each **data as a singleton cluster** at the outset and then successively agglomerates pairs of clusters until all clusters have been merged into a single cluster that contains all data.

---



# Divisive Clustering

---

## Top-down Approach

Top-down clustering requires a method for **splitting a cluster that contains the whole data** and proceeds by splitting clusters recursively until individual data have been splitted into singleton clusters.

---



Get daily updates on  
Data Science concepts

**FOLLOW NOW**



DATA-DRIVEN  
SCIENCE