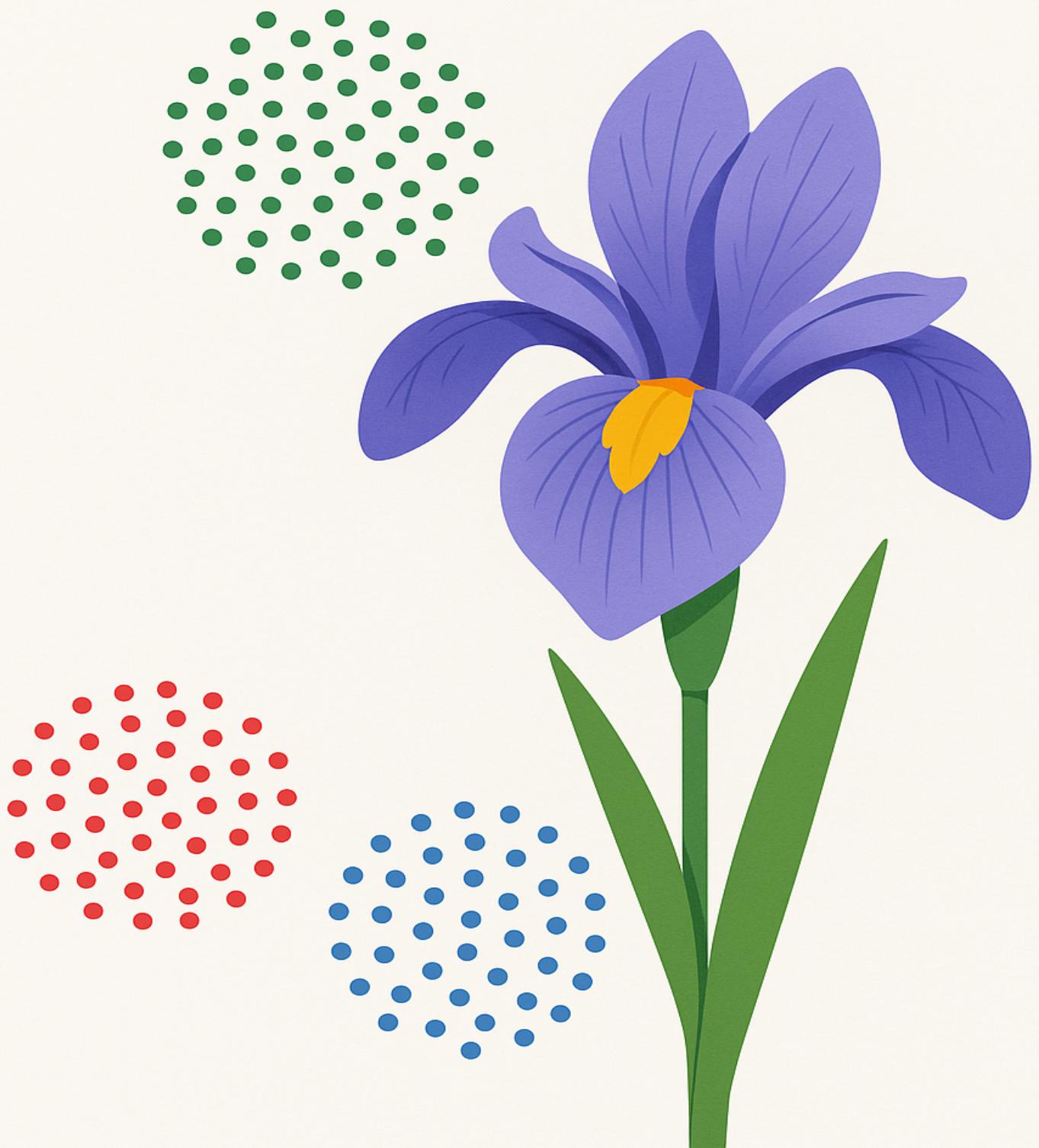


# Clustering Analysis



# Iris Clusters Analysis

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## Contents

<b>Business Understanding</b>	<b>1</b>
<b>Data Understanding</b>	<b>2</b>
<b>Data Preparation</b>	<b>3</b>
<b>Modeling</b>	<b>4</b>
K-Means Clustering . . . . .	4
Hierarchical Clustering . . . . .	4
Gaussian Mixture Model (Model-Based Clustering) . . . . .	4
DBSCAN (Density-Based Clustering) . . . . .	4
<b>Evaluation</b>	<b>5</b>
<b>Deployment</b>	<b>6</b>
<b>Conclusion</b>	<b>7</b>
<b>About the Author</b>	<b>8</b>

## Business Understanding

## Data Understanding

## Data Preparation

## Modeling

### K-Means Clustering

A partitioning method that divides the dataset into k clusters based on distance to centroids.

### Hierarchical Clustering

Builds a dendrogram to represent nested groupings

### Gaussian Mixture Model (Model-Based Clustering)

Assumes data comes from a mixture of Gaussian distributions.

### DBSCAN (Density-Based Clustering)

Detects clusters of varying shapes and identifies noise.

## Evaluation

## Deployment

## Conclusion

## About the Author