Mushroom Dataset Overview

cap-shape	veil-type
cap-surface	veil-color
cap-color	ring-number
bruises	ring-type
odor	spore-print-color
gill-attachment	population
gill-spacing	habitat
gill-size	
gill-color	
stalk-shape	
stalk-root	
stalk-surface-above-ring	
stalk-surface-below-ring	
stalk-color-above-ring	
stalk-color-below-ring	

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class (target)
edible / poisonous

Dataset Loading (.csv)

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Data Preprocessing &
Feature Engineering

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Supervised Learning
(Model Training & Evaluation)

↑

Unsupervised Learning
(Clustering & Dim. Reduction)

↑

Visualization & Interpretation

↑

Frontend Interface
(Streamlit, etc.)