

# Drug Classification – ML Project Summary



TEAM: DATA  
CRAFTERS



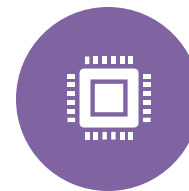
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# Problem Statement

- Predict the best drug for a patient based on health features using Machine Learning.



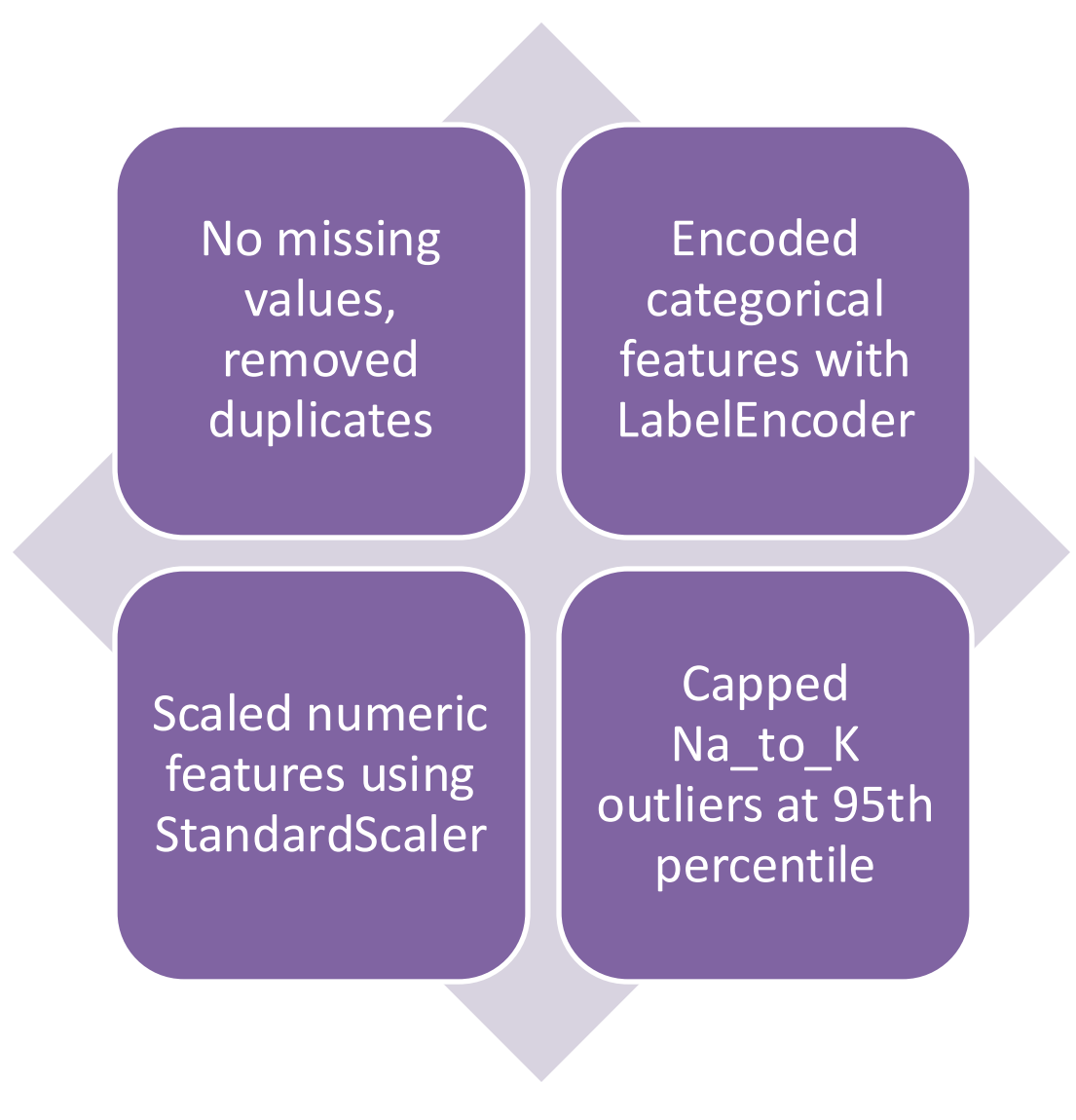
# Dataset Overview

200 patient  
records  
(drug200.csv)

Features: Age, Sex,  
BP, Cholesterol,  
Na\_to\_K

Target: Drug  
(DrugA, DrugB,  
DrugC, DrugX,  
DrugY)

# Data Preprocessing



# Modeling



MODEL:  
RANDOMFORESTCLASSIFIER



TRAIN-TEST SPLIT: 70-30  
(STRATIFIED)



EVALUATION: CONFUSION  
MATRIX AND  
CLASSIFICATION REPORT



ACCURACY: ~100% ON TEST  
SET

# Key Findings



Na\_to\_K is the most predictive feature



DrugY associated with high Na\_to\_K and high BP







DrugC often prescribed for low BP patients



Good classification balance across drug types

# Conclusion

-  Cleaned and processed ML-ready dataset
-  Achieved high accuracy and clarity
-  Project meets evaluation rubric
-  Ready for deployment in healthcare prediction systems