

## Controls

Upload CSV dataset

Drag and drop file here

Limit 200MB per file • CSV

Browse files



Target column (default: 'stage')

Stage

Model

Random Forest

Cross-validation folds

5

Test size

0.35

Use class\_weight='balanced'  
(recommended if imbalanced)

## SVM Grid

C values

0.5 × 2 × 5 ×

Kernels

linear × rbf ×

Gamma

auto × scale ×

## Random Forest Grid

n\_estimators

100 × 200 × 400 ×

max\_depth

10 × 20 ×

## Logistic Regression Grid

C values (LR)

1 × 2 × 5 ×

Penalty

l2 ×

Solver

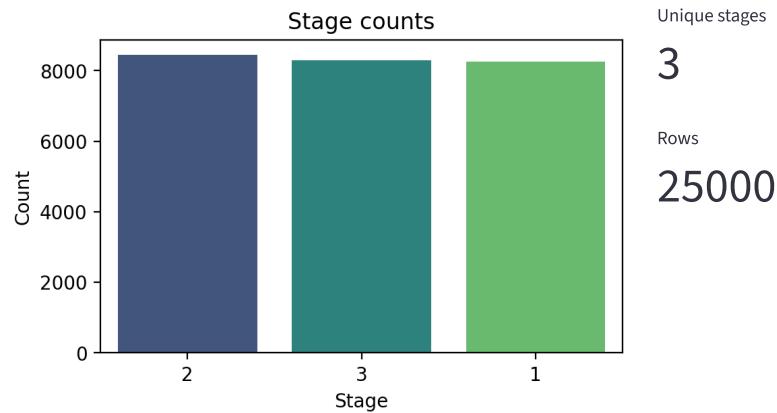
# Liver Cirrhosis Stage Classifier

A clean, interactive dashboard to train, evaluate, and deploy a stage prediction model.

## Dataset preview

	N_Days	Status	Drug	Age	↓ Sex	Ascites	Hepatomegaly	Spiders	Edema	Bilirubin	Cholesterol
1	1230	C	Placebo	19724	M	Y	N	Y	N	0.5	219
9	1012	D	Placebo	22280	M	Y	N	Y	S	1.4	176
0	2221	C	Placebo	18499	F	N	Y	N	N	0.5	149
2	4184	C	Placebo	11839	F	N	N	N	N	0.5	320
3	2090	D	Placebo	16467	F	N	N	N	N	0.7	256
4	2105	D	Placebo	21699	F	N	Y	N	N	1.9	486
5	4427	C	Placebo	16418	F	N	N	N	N	1.9	256
6	1418	C	Placebo	23011	F	Y	N	Y	N	1.3	291
7	51	D	Placebo	24107	F	Y	N	Y	Y	12.6	200
8	2504	C	Placebo	15265	F	N	N	N	N	2.3	369.5106

## Target distribution



## Detected columns

Numeric:

```
[ 0 : "N_Days"  
 1 : "Age"  
 2 : "Bilirubin"  
 3 : "Cholesterol"  
 4 : "Albumin"  
 5 : "Copper"  
 6 : "Alk_Phosph"  
 7 : "SGOT"  
 8 : "Tryglicerides"  
 9 : "Platelets"  
 10 : "Prothrombin"]
```

Categorical:

```
[ 0 : "Status"  
 1 : "Drug"  
 2 : "Sex"  
 3 : "Ascites"  
 4 : "Hepatomegaly"  
 5 : "Spiders"  
 6 : "Edema"]
```

## Training & tuning

Training complete in 1205.48 seconds

Best params:

```
▼ {  
    "clf__max_depth" : 20  
    "clf__n_estimators" : 400  
}
```

Best CV accuracy: 0.9501

## Evaluation on test set

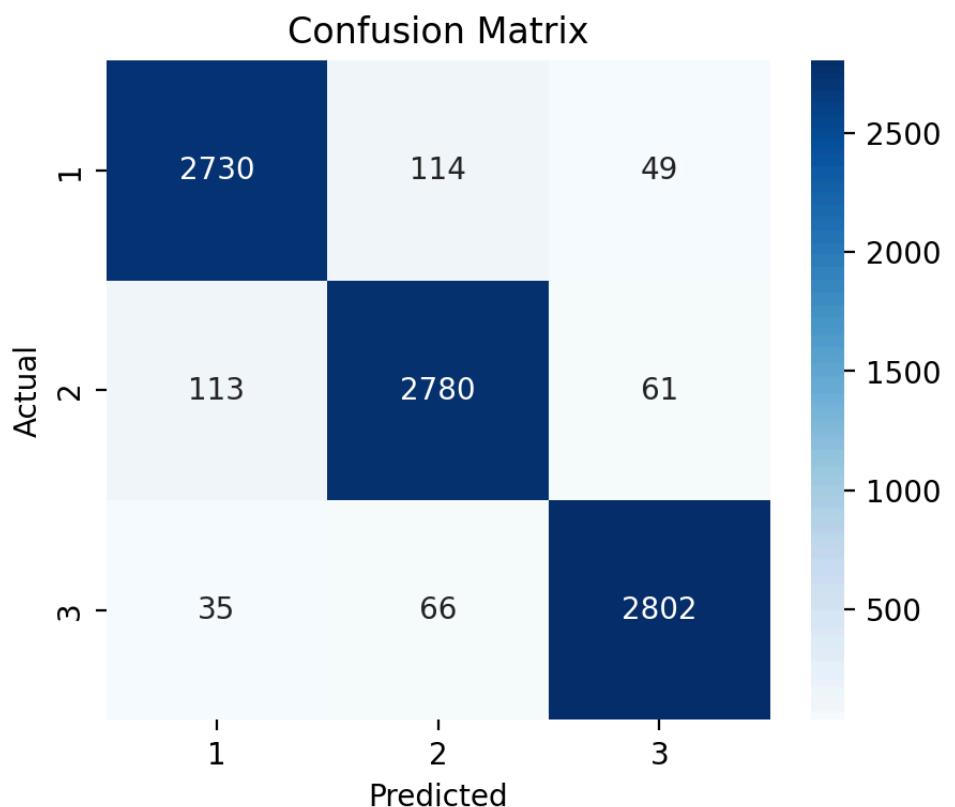
Accuracy

**0.9499**

Weighted F1

**0.9499**

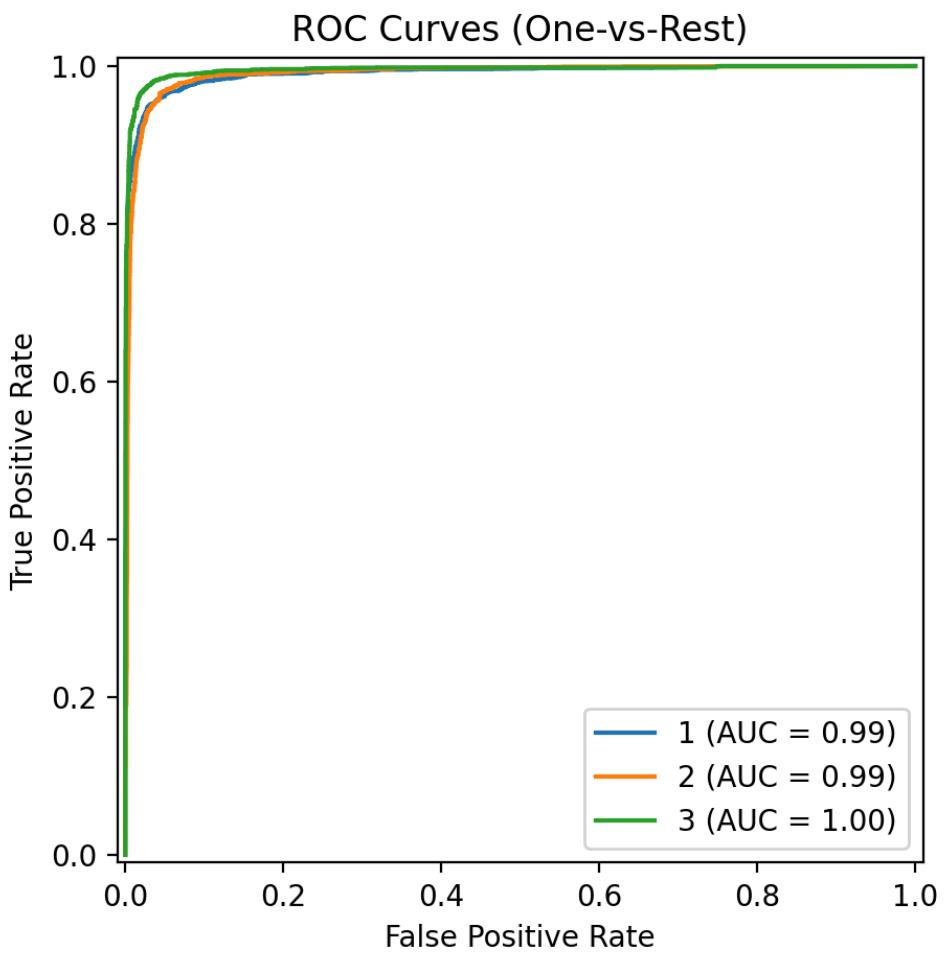
## Confusion matrix



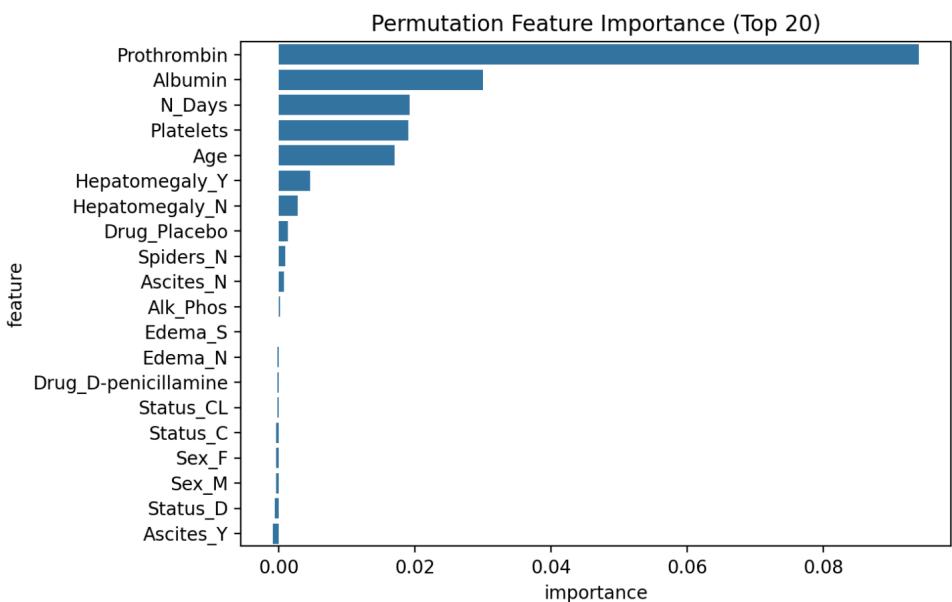
## Classification report

	precision	recall	f1-score
1	0.9486	0.9437	
2	0.9392	0.9411	
3	0.9622	0.9652	
accuracy	0.9499	0.9499	
macro avg	0.95	0.95	
weighted avg	0.9499	0.9499	

## ROC curves



### Feature importance (permutation)



## Predictions

Use the dynamic form to input patient attributes.

N\_Days  
1680.00 - +

Status  
C ▼

Drug

D-penicillamine



Age

18499.00

- +

Sex

F



Ascites

N



Hepatomegaly

N



Spiders

N



Edema

N



Bilirubin

1.30

- +

Cholesterol

369.51

- +

Albumin

3.51

- +

Copper

97.65

- +

Alk\_Phosphatase

1828.00

- +

SGOT

122.56

- +

Tryglicerides

124.70

- +

Platelets

251.00

- +

Prothrombin

10.60

- +

Predict

