

## Controls

Upload CSV dataset

Drag and drop file here

Limit 200MB per file • CSV

Browse files



Liver Cirrhosis Stage D...  
2.2MB

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



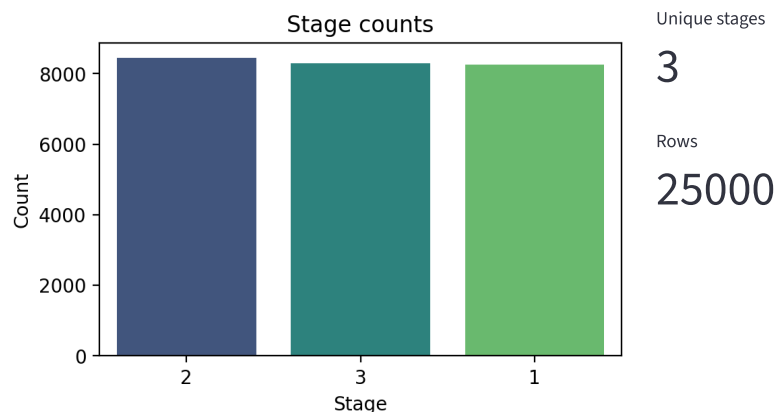
# Liver Cirrhosis Stage Classifier

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	255
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	259
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_Phos"
  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

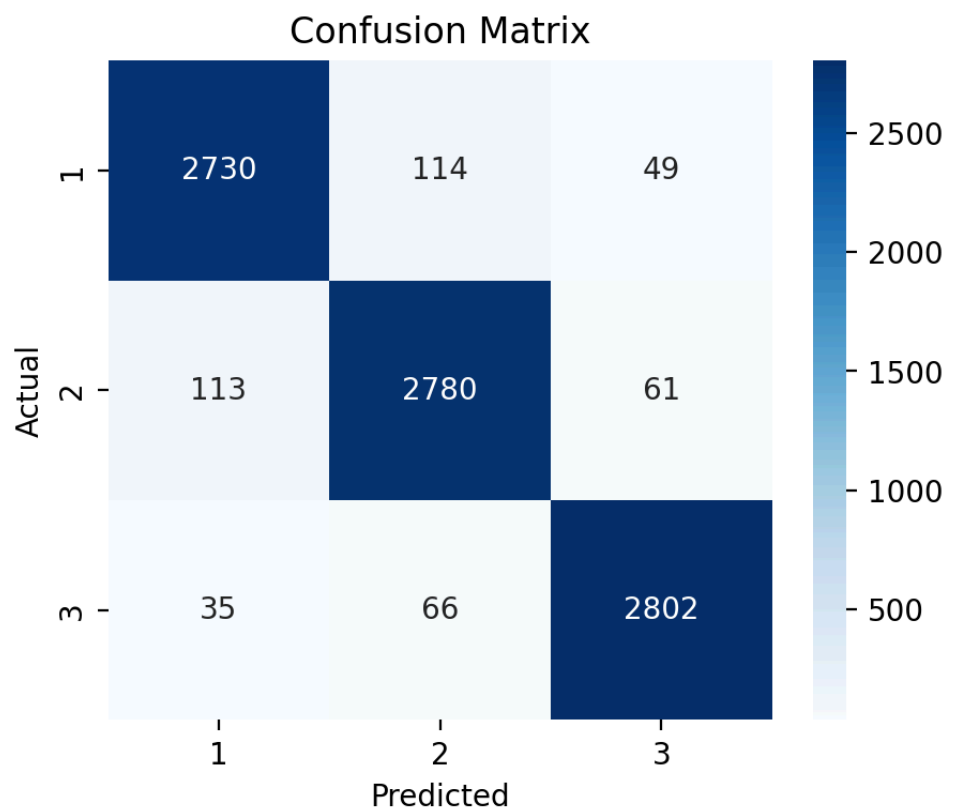
Accuracy

0.9499

Weighted F1

0.9499

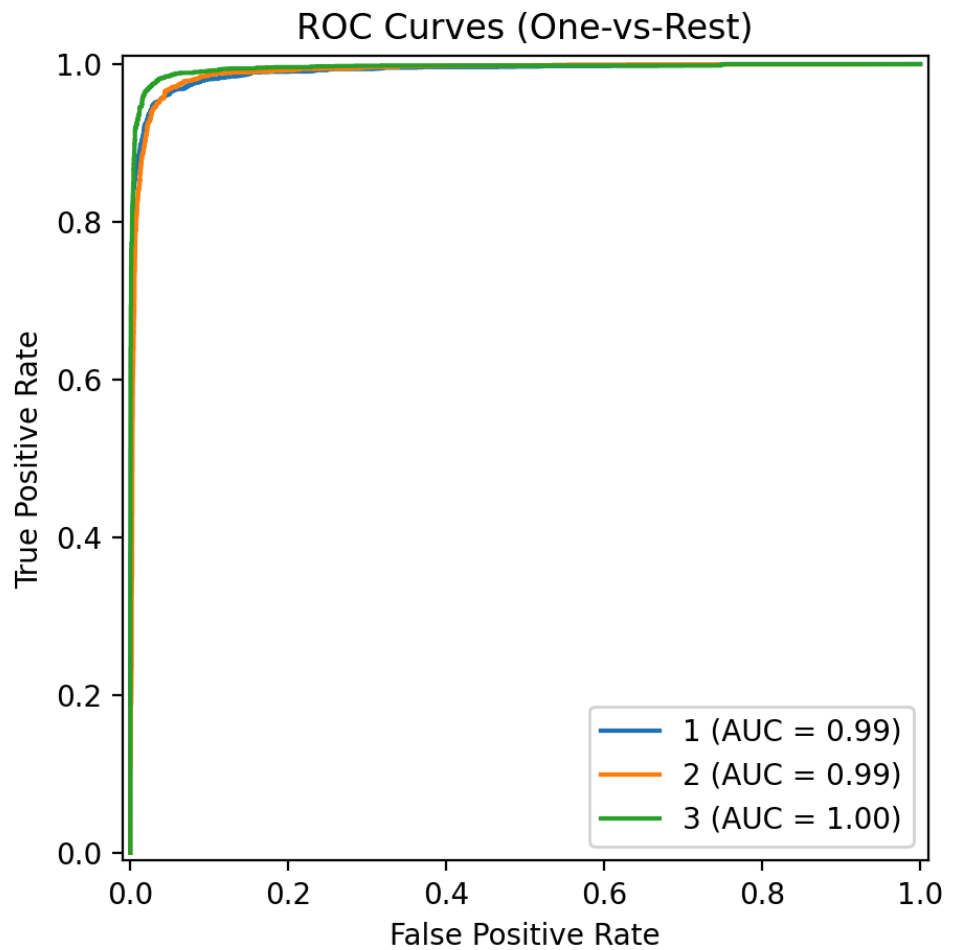
## Confusion matrix



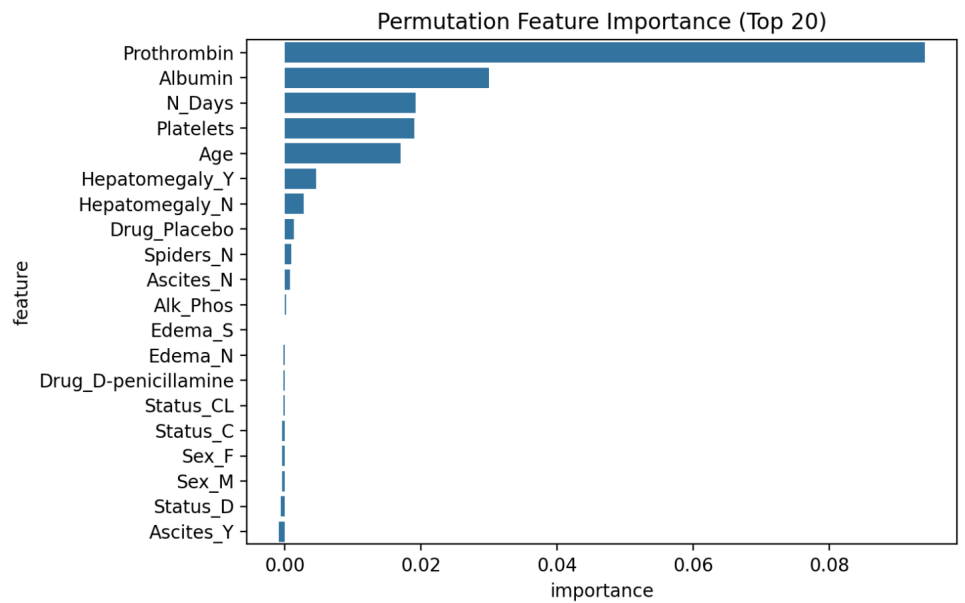
## Classification report

	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\_Phos

1828.00



SGOT

122.56



Tryglicerides

124.70



Platelets

251.00



Prothrombin

10.60



Predict

