Figure S1 Pearson correlation heat map of 50 different features.

Figure S2 This figure shows the features with the highest weight coefficient of five machine models. The distribution of the top 20 features (A,B,C,D,E) of the 5 ML models, and the weight ratios of the different types of features (F).
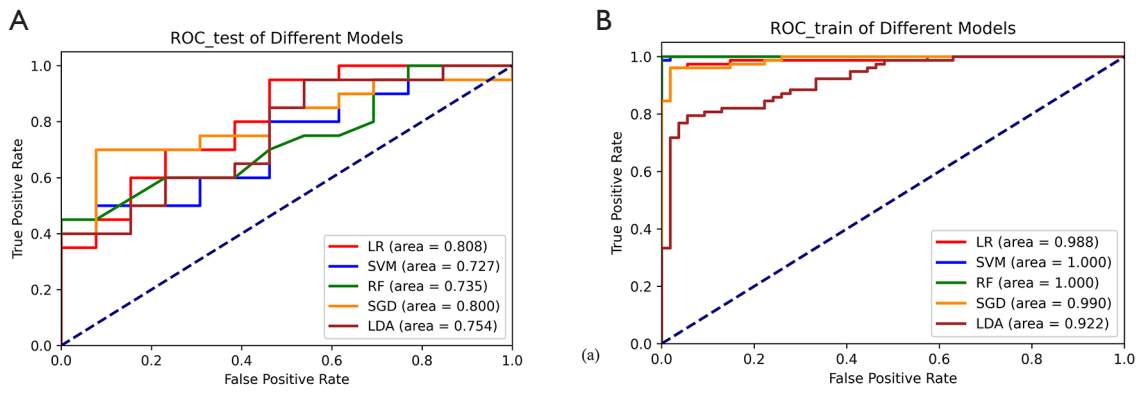
Figure S3 Comparison of diagnostic performance of different machine learning models. ROC curves of 5 machine learning models in the test set (A) and the training set (B).
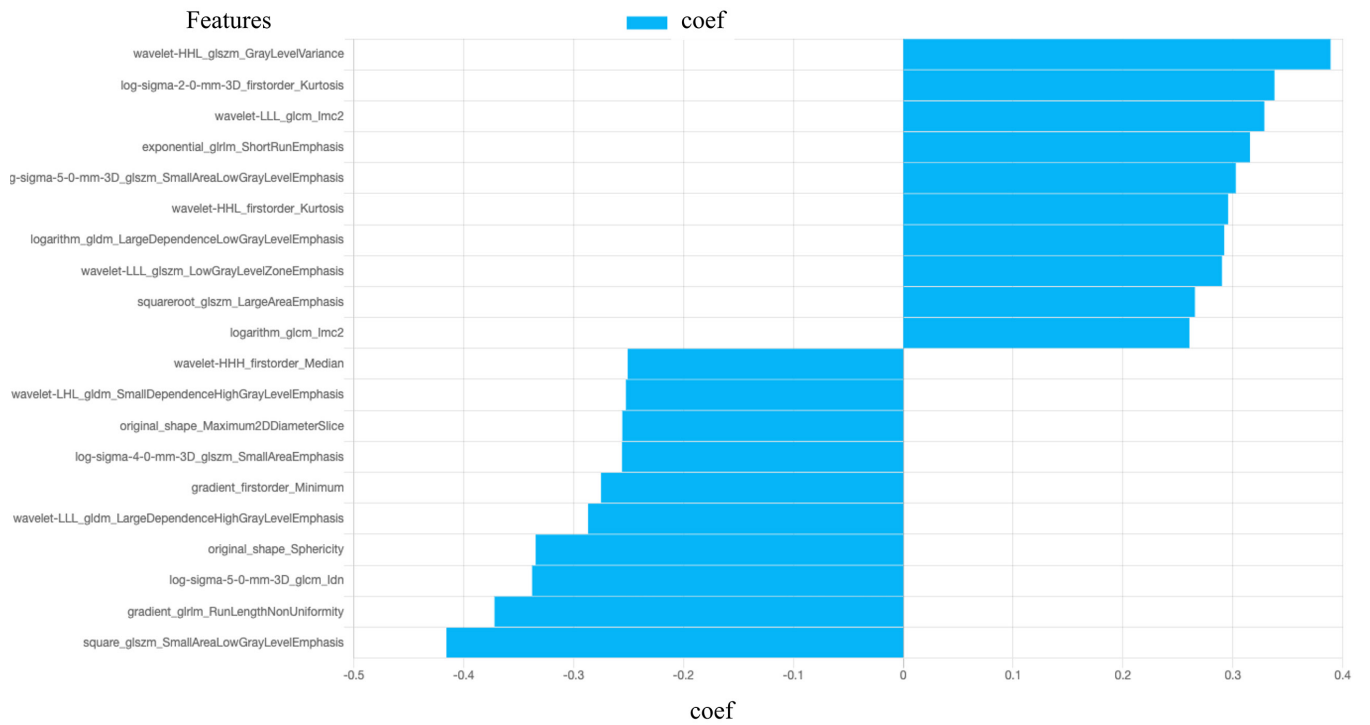

Figure S4 Coefficients of the top 20 features of the LR classifier.

Table S1 Clinical logistic regression model

Clinical factors	Regression coefficient	P value	OR	OR 95% CI
AP-CT value (Hu)	0.024	0.022	1.024	1.003-1.045
Perienteric edema or inflammation	-0.965	0.028	0.381	0.161-0.901
Lesion location				
Terminal ileum	-0.061	0.106	0.915	0.345-3.279
Cecum	-0.345	0.551	0.709	0.228-2.202
Ascending colon	-0.596	0.33	0.551	0.166-1.827
Transverse colon	-1.006	0.122	0.366	0.102-1.307
Descending colon	-0.849	0.178	0.428	0.125-1.470
Sigmoid colon	-1.05	0.078	0.35	0.109-1.123
Rectum	-0.486	0.446	0.615	0.176-2.149