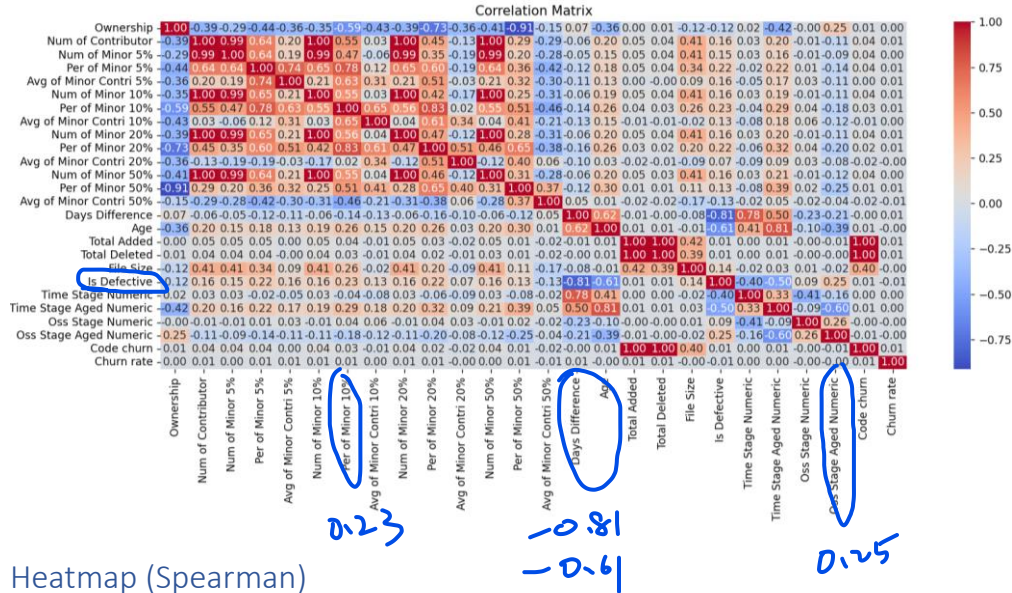


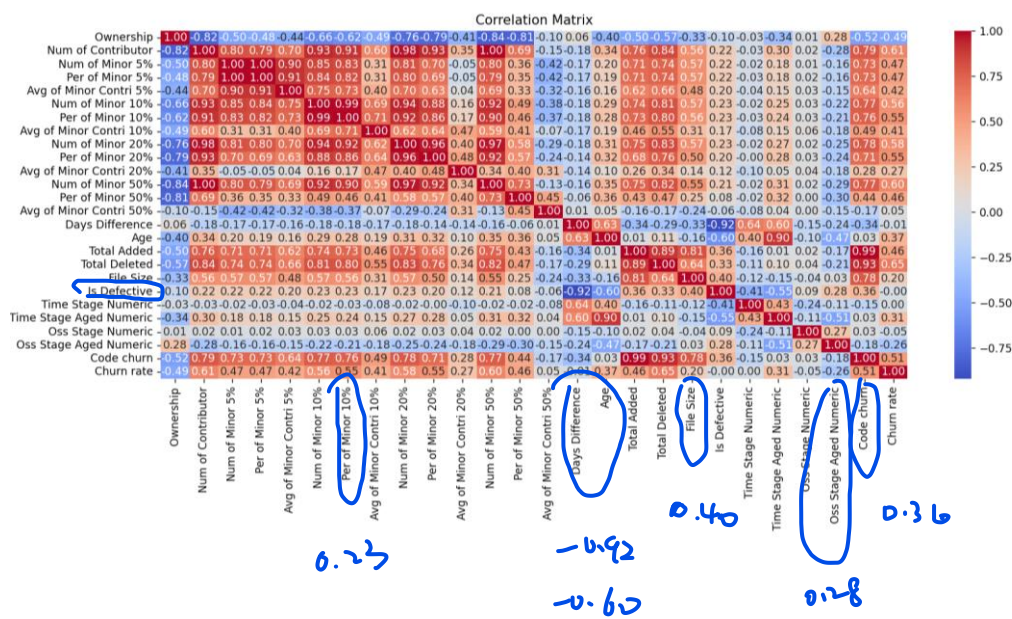
Is Defective

Combined (1:1, pytorch/tensorflow)

Heatmap (Pearson)



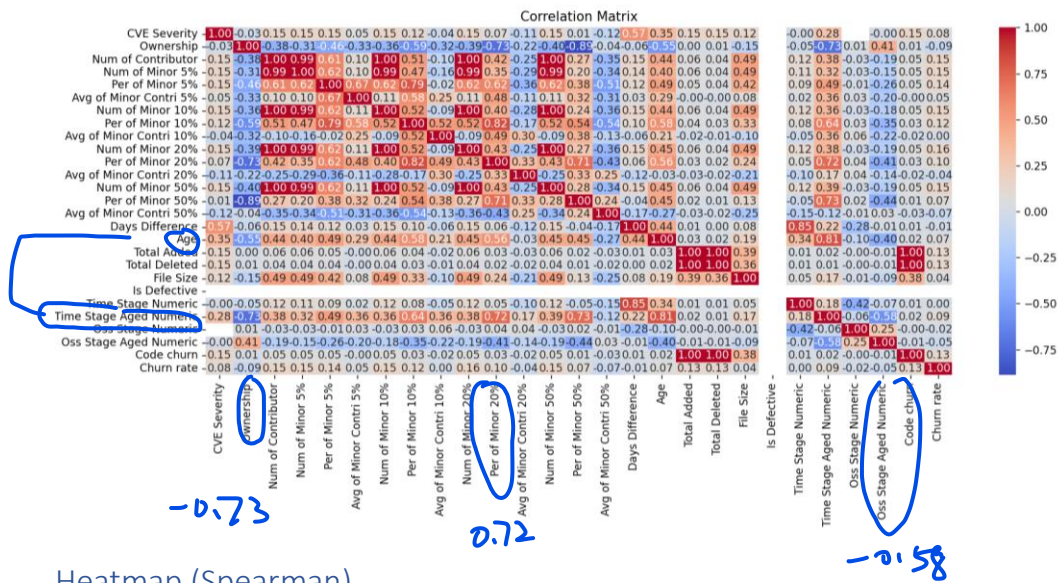
Heatmap (Spearman)



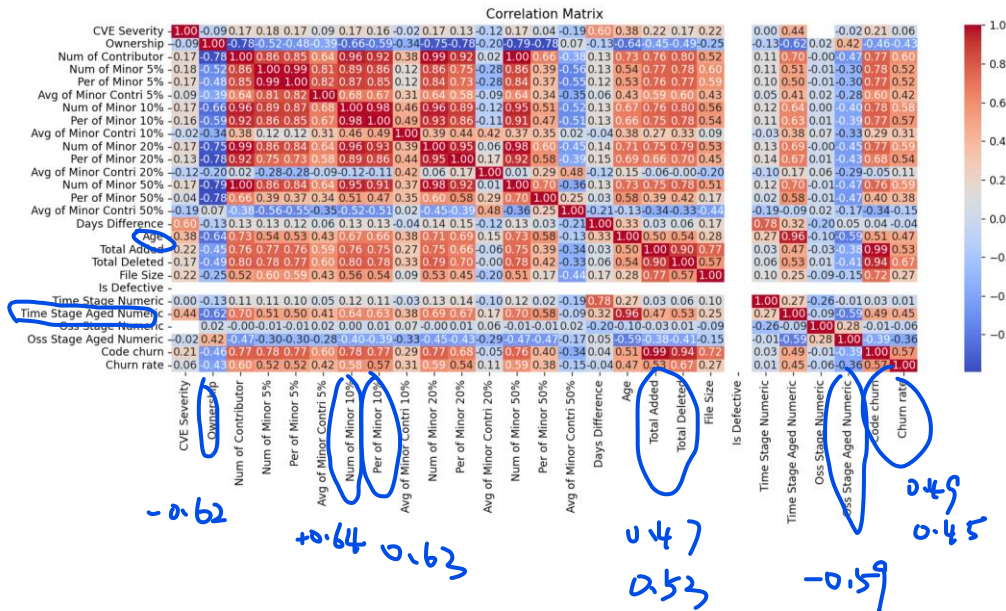
Vulnerable (vs Age/Time)

Pytorch + tensorflow

Heatmap (Pearson)



Heatmap (Spearman)



Multiple Linear Regression

Classic

OLS Regression Results

Dep. Variable:

Time Stage Aged Numeric

R-squared:

0.008

Model:

OLS

Adj. R-squared:

0.007

Method:

Least Squares

F-statistic:

41.33

Date:

Fri, 15 Sep 2023

Prob (F-statistic):

6.64e-20

Time:

03:45:04

Log-Likelihood:

-18290.

No. Observations:

11491

AIC:

3.659e+04

Df Residuals:

11488

BIC:

3.661e+04

Df Model:

2

Covariance Type:

nonrobust

coef

std err

t

P>|t|

[0.025

0.975]

const

3.6686

0.011

321.901

0.000

3.646

3.691

Churn rate

7.862e-05

8.53e-06

9.217

0.000

6.19e-05

9.53e-05

Code churn

1.084e-07

1.47e-07

0.737

0.461

-1.8e-07

3.97e-07

Omnibus:

1033.218

Durbin-Watson:

0.685

Prob(Omnibus):

0.000

Jarque-Bera (JB):

1331.690

Skew:

-0.831

Prob(JB):

6.72e-290

Kurtosis:

2.851

Cond. No.

7.82e+04

Classic + Minor

OLS Regression Results

Dep. Variable:	Time Stage Aged Numeric	R-squared:	0.520
Model:	OLS	Adj. R-squared:	0.520
Method:	Least Squares	F-statistic:	4149.
Date:	Fri, 15 Sep 2023	Prob (F-statistic):	0.00
Time:	03:45:21	Log-Likelihood:	-14117.
No. Observations:	11491	AIC:	2.824e+04
Df Residuals:	11487	BIC:	2.827e+04
Df Model:	3		
Covariance Type:	nonrobust		

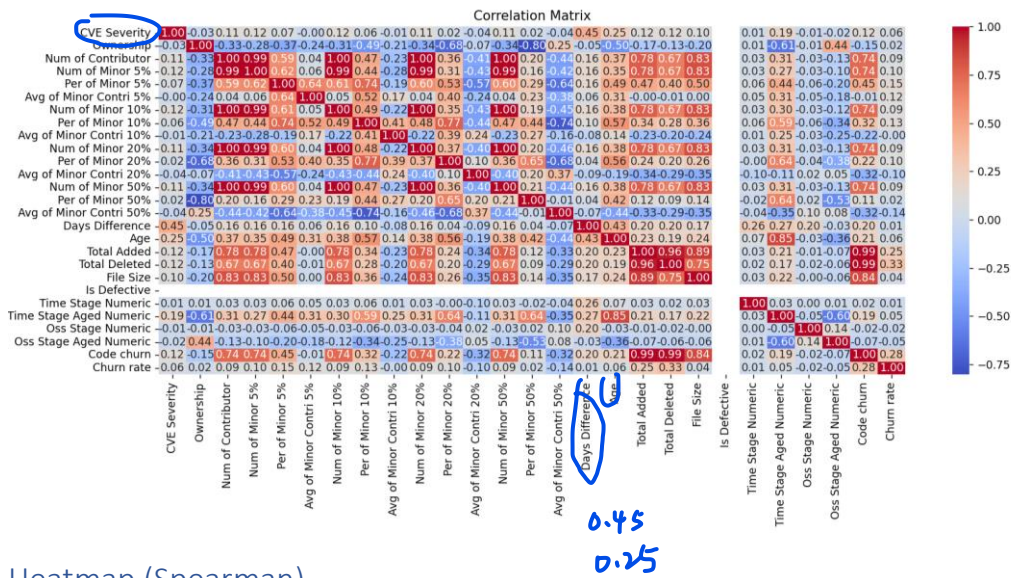
	coef	std err	t	P> t	[0.025	0.975]
const	2.1450	0.016	135.090	0.000	2.114	2.176
Churn rate	1.197e-05	5.96e-06	2.008	0.045	2.84e-07	2.37e-05
Code churn	-3.416e-08	1.02e-07	-0.334	0.738	-2.35e-07	1.66e-07
Per of Minor 20%	2.3270	0.021	110.744	0.000	2.286	2.368

Omnibus:	152.463	Durbin-Watson:	0.996
Prob(Omnibus):	0.000	Jarque-Bera (JB):	187.298
Skew:	0.211	Prob(JB):	2.13e-41
Kurtosis:	3.462	Cond. No.	2.52e+05

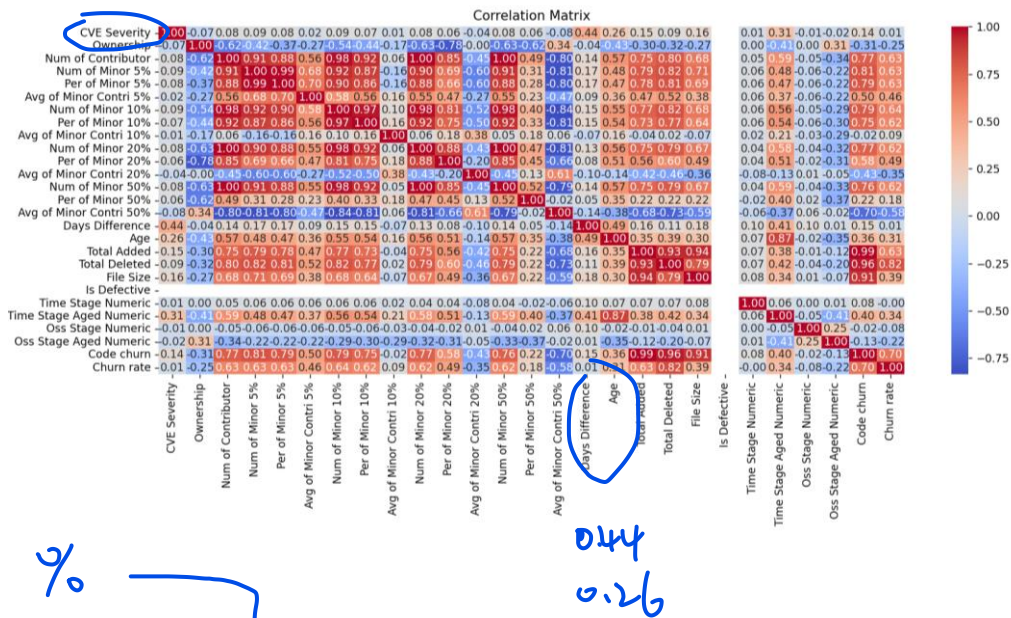
CVE Severity

NVD official

Heatmap (Pearson)



Heatmap (Spearman)



Threshold
Component Type

✖ Prediction

Re-CVE-2

Report -3