

Results of the ten mixed-effects logistic models with random build sample removal

Metric	Model 1			Model 2			Model 3			Model 4			Model 5		
	$\chi^2$	Signf.*	Rel.	$\chi^2$	Signf.*	Rel.	$\chi^2$	Signf.*	Rel.	$\chi^2$	Signf.*	Rel.	$\chi^2$	Signf.*	Rel.
(Intercept)	0.0622	***	-	0.0623	***	-	0.0608	***	-	0.0618	***	-	0.0634	***	-
Previous build status	0.5131	***	-	0.5245	***	-	0.5288	***	-	0.5187	***	-	0.5205	***	-
Belongs to the default branch	0.2935	***	↘	0.2818	***	↘	0.2871	***	↘	0.2856	***	↘	0.2867	***	↘
Is Pull Request	0.0796	***	↗	0.0838	***	↗	0.0755	***	↗	0.0809	***	↗	0.0785	***	↗
Source churn	0.0275	***	↗	0.0226	***	↗	0.0242	***	↗	0.0316	***	↗	0.0266	***	↗
Day of week	0.0063	**	-	0.0072	**	-	0.0046	*	-	0.0065	**	-	0.0081	**	-
Team size	0.0054	***	↗	0.0059	***	↗	0.0063	***	↗	0.0059	***	↗	0.0066	***	↗
Commits on touched files	0.0025	**	↗	0.0030	**	↗	0.0019	*	↗	0.0031	**	↗	0.0023	*	↗
Files modified	0.0024	**	↗	0.0025	**	↗	0.0025	**	↗	0.0004		↗	0.0017	*	↗
Core developer	0.0024	*	↗	0.0019	*	↗	0.0025	**	↗	0.0029	**	↗	0.0020	*	↗
Test churn	0.0021	*	↘	0.0001		↘	0.0010	.	↘	0.0000		↗	0.0004		↘
Tests added	0.0012	.	↗	0.0011	.	↗	0.0008		↗	0.0008		↗	0.0010		↗
Triggered at night	0.0009		↘	0.0009		↘	0.0005		↘	0.0003		↘	0.0004		↘
Other files changed	0.0003		↗	0.0021	*	↗	0.0016	*	↗	0.0010	.	↗	0.0010		↗
Doc files changed	0.0003		↘	0.0001		↘	0.0007		↘	0.0005		↘	0.0002		↘
Tests deleted	0.0001		↗	0.0000		↗	0.0006		↗	0.0000		↗	0.0006		↗
Configuration files modified	0.0000		↗	0.0001		↗	0.0004		↗	0.0000		↗	0.0000		↘

\*Significance codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Results of the ten mixed-effects logistic models with random build sample removal (continued)

Metric	Model 6			Model 7			Model 8			Model 9			Model 10		
	$\chi^2$	Signf.*	Rel.	$\chi^2$	Signf.*	Rel.	$\chi^2$	Signf.*	Rel.	$\chi^2$	Signf.*	Rel.	$\chi^2$	Signf.*	Rel.
(Intercept)	0.0618	***	-	0.0640	***	-	0.0637	***	-	0.0650	***	-	0.0647	***	-
Previous build status	0.5285	***	-	0.5420	***	-	0.5310	***	-	0.5192	***	-	0.5249	***	-
Belongs to the default branch	0.2867	***	↘	0.2755	***	↘	0.2837	***	↘	0.2831	***	↘	0.2797	***	↘
Is Pull Request	0.0713	***	↗	0.0723	***	↗	0.0743	***	↗	0.0802	***	↗	0.0802	***	↗
Source churn	0.0266	***	↗	0.0256	***	↗	0.0239	***	↗	0.0254	***	↗	0.0256	***	↗
Day of week	0.0063	**	-	0.0052	*	-	0.0057	*	-	0.0063	**	-	0.0050	*	-
Team size	0.0052	***	↗	0.0061	***	↗	0.0059	***	↗	0.0091	***	↗	0.0070	***	↗
Commits on touched files	0.0039	**	↗	0.0029	**	↗	0.0039	**	↗	0.0029	**	↗	0.0035	**	↗
Files modified	0.0032	**	↗	0.0016	*	↗	0.0017	*	↗	0.0023	*	↗	0.0015	*	↗
Core developer	0.0012	.	↗	0.0021	*	↗	0.0021	*	↗	0.0036	**	↗	0.0025	**	↗
Test churn	0.0017	*	↘	0.0001		↘	0.0009		↘	0.0000		↗	0.0015	*	↘
Tests added	0.0004		↗	0.0010		↗	0.0009		↗	0.0009		↗	0.0012	.	↗
Triggered at night	0.0010	.	↘	0.0006		↘	0.0009		↘	0.0009		↘	0.0011	.	↘
Other files changed	0.0013	.	↗	0.0004		↗	0.0010		↗	0.0005		↗	0.0009		↗
Doc files changed	0.0000		↘	0.0003		↘	0.0003		↘	0.0001		↘	0.0001		↘
Tests deleted	0.0009		↗	0.0002		↗	0.0001		↗	0.0002		↗	0.0006		↗
Configuration files modified	0.0000		↗	0.0000		↗	0.0003		↗	0.0004		↗	0.0001		↗

\*Significance codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1