

# Technical Report

May 28, 2021

This is the appendix of TSE paper “Pull Request Decision Explained: An Empirical Overall”.

## **1 Results for decision making in special cases**

Table 1 presents the results of how factors influence pull request decision when there exists contributor’s comment or integrator’s comment.

Table 1: presents the results of special cases, including *contrib\_comment=1* and *inte\_comment=1*.

	Dependent variable: <i>merged_or_not=1</i>	
	<i>contrib_comment=1</i>	<i>inte_comment=1</i>
(Intercept)	11.0***	9.46***
same_user	0.50*** [37.26%]	0.62*** [18.83%]
lifetime_minutes	0.65*** [19.81%]	0.61*** [30.63%]
prior_review_num	1.52*** [12.67%]	1.47*** [12.70%]
core_member	1.30*** [ 5.30%]	1.30*** [ 5.66%]
num_commits	1.51*** [10.76%]	1.54*** [12.75%]
other_comment	1.13*** [ 1.53%]	1.15*** [ 2.35%]
ci_exists	1.10*** [ 0.73%]	1.12*** [ 1.13%]
hash_tag	1.12*** [ 1.51%]	1.12*** [ 1.81%]
files_added	0.90*** [ 0.79%]	0.89*** [ 1.03%]
prev_pullreqs	1.14*** [ 0.71%]	1.17*** [ 1.12%]
commits_on_files_touched	1.05*** [ 0.21%]	1.04*** [ 0.12%]
open_pr_num	0.94*** [ 0.05%]	0.91*** [ 0.12%]
account_creation_days	1.05*** [ 0.24%]	1.05*** [ 0.29%]
first_pr	0.93*** [ 0.54%]	0.95*** [ 0.32%]
test_churn	1.09*** [ 0.40%]	1.09*** [ 0.42%]
files_changed	0.96*** [ 0.06%]	0.96*** [ 0.07%]
project_age	1.10*** [ 0.27%]	1.08*** [ 0.19%]
reopen_or_not	0.97*** [ 0.21%]	0.97*** [ 0.18%]
contrib_open	1.03*** [ 0.07%]	1.03*** [ 0.09%]
stars	0.80*** [ 0.60%]	0.81*** [ 0.55%]
inte_open	1.14*** [ 1.04%]	1.12*** [ 0.88%]
description_length	1.00*** [ 0.00%]	1.01*** [ 0.02%]
pushed_delta	1.03*** [ 0.08%]	1.03*** [ 0.13%]
followers	1.02*** [ 0.04%]	1.03*** [ 0.05%]
contrib_cons	1.06*** [ 0.20%]	1.05*** [ 0.18%]
team_size	1.04*** [ 0.03%]	1.06*** [ 0.07%]
contrib_gender	0.98*** [ 0.08%]	0.97*** [ 0.11%]
files_deleted	0.96*** [ 0.19%]	0.95*** [ 0.26%]
pr_succ_rate	0.99*** [ 0.01%]	0.99*** [ 0.02%]
contrib_agree	0.96*** [ 0.13%]	0.98*** [ 0.04%]
contrib_extra	0.97*** [ 0.08%]	0.98*** [ 0.04%]
contrib_neur	1.00*** [ 0.00%]	1.01*** [ 0.00%]
inte_neur	1.05*** [ 0.12%]	1.03*** [ 0.00%]
num_comments	1.03*** [ 0.09%]	1.17*** [ 2.15%]
comment_conflict	1.00*** [ 0.00%]	1.00*** [ 0.00%]
Friday_effect	1.02*** [ 0.03%]	1.01*** [ 0.04%]
inte_agree	1.01*** [ 0.00%]	1.00*** [ 0.00%]
inte_extra	1.00*** [ 0.00%]	1.01*** [ 0.00%]
open_issue_num	0.98*** [ 0.01%]	1.01*** [ 0.00%]
sloc	1.02*** [ 0.01%]	1.02*** [ 0.01%]
test_inclusion	1.02*** [ 0.03%]	1.02*** [ 0.04%]
inte_cons	1.00*** [ 0.00%]	1.02*** [ 0.02%]
integrator_availability	0.99*** [ 0.01%]	1.00*** [ 0.00%]
src_churn	1.06*** [ 0.21%]	1.06*** [ 0.21%]
test_lines_per_kloc	1.01*** [ 0.00%]	1.00*** [ 0.00%]
perc_contrib_pos_emo	1.19*** [ 3.83%]	-
perc_contrib_neg_emo	0.98*** [ 0.05%]	-
perc_inte_pos_emo	-	1.24*** [ 5.19%]
perc_inte_neg_emo	-	1.03*** [ 0.10%]
Observations	770,280	823,711
AUC_train	0.837	0.836