Table 6: Precisions with different temporal window length  $\gamma$  for the activeness based approach. (Best results in bold.)

Project	Temporal window	Top-1	Top-2	Top-3	Top-4	Top-5
rails	7 days	0.364	0.297	0.259	0.222	0.194
	15 days	0.384	0.314	0.271	0.232	0.201
	30 days	0.384	0.319	0.275	0.236	0.206
	60 days	0.388	0.322	0.277	0.239	0.209
	no time limit	0.393	0.324	0.276	0.238	0.209
symfony	7 days	0.557	0.467	0.37	0.301	0.257
	15 days	0.568	0.48	0.383	0.312	0.265
	30 days	0.58	0.49	0.386	0.316	0.27
	60 days	0.582	0.496	0.387	0.318	0.272
	no time limit	0.591	0.495	0.386	0.318	0.274
scala	7 days	0.628	0.467	0.394	0.334	0.288
	15 days	0.647	0.481	0.398	0.341	0.296
	30 days	0.654	0.484	0.4	0.342	0.297
	60 days	0.655	0.486	0.399	0.343	0.298
	no time limit	0.654	0.475	0.389	0.341	0.297
bitcoin	7 days	0.681	0.572	0.483	0.419	0.37
	15 days	0.702	0.589	0.504	0.441	0.388
	30 days	0.7	0.593	0.508	0.447	0.395
	60 days	0.702	0.6	0.512	0.449	0.399
	no time limit	0.698	0.599	0.516	0.451	0.401
zf2	7 days	0.589	0.392	0.3	0.241	0.201
	15 days	0.606	0.406	0.314	0.254	0.213
	30 days	0.608	0.408	0.319	0.258	0.219
	60 days	0.612	0.407	0.322	0.261	0.222
	no time limit	0.569	0.399	0.322	0.266	0.228
akka	7 days	0.778	0.648	0.55	0.478	0.41
	15 days	0.797	0.661	0.565	0.488	0.419
	30 days	0.793	0.67	0.567	0.493	0.424
	60 days	0.807	0.675	0.57	0.496	0.426
	no time limit	0.798	0.672	0.572	0.497	0.428
cakephp	7 days	0.626	0.476	0.383	0.327	0.279
_	15 days	0.66	0.494	0.402	0.342	0.296
	30 days	0.675	0.505	0.407	0.342	0.292
	60 days	0.713	0.51	0.41	0.348	0.297
	no time limit	0.685	0.516	0.428	0.367	0.313
gitlabhq	7 days	0.596	0.466	0.377	0.316	0.271
- •	15 days	0.621	0.485	0.393	0.334	0.287
	30 days	0.652	0.499	0.409	0.343	0.295
	60 days	0.662	0.499	0.409	0.348	0.298
	no time limit	0.64	0.496	0.402	0.342	0.294

Table 7: Recalls with different temporal window length  $\gamma$  for the activeness based approach. (Best results in bold.)

Project	Temporal window	Top-1	Top-2	Top-3	Top-4	Top-5
rails	7 days	0.219	0.347	0.442	0.5	0.54
	15 days	0.233	0.37	0.466	0.522	0.559
	30 days	0.231	0.374	0.473	0.53	0.575
	60 days	0.232	0.376	0.476	0.537	0.583
	no time limit	0.235	0.381	0.475	0.538	0.583
symfony	7 days	0.306	0.484	0.565	0.607	0.638
	15 days	0.311	0.499	0.587	0.63	0.659
	30 days	0.318	0.511	0.591	0.636	0.672
	60 days	0.321	0.519	0.593	0.64	0.677
	no time limit	0.327	0.518	0.593	0.641	0.682
scala	7 days	0.359	0.508	0.625	0.694	0.737
	15 days	0.373	0.527	0.631	0.71	0.757
	30 days	0.378	0.53	0.634	0.712	0.758
	60 days	0.38	0.532	0.635	0.713	0.764
	no time limit	0.38	0.517	0.613	0.703	0.76
bitcoin	7 days	0.316	0.5	0.613	0.691	0.748
	15 days	0.326	0.518	0.642	0.729	0.786
	30 days	0.325	0.521	0.65	0.742	0.799
	60 days	0.326	0.533	0.653	0.744	0.808
	no time limit	0.326	0.533	0.66	0.745	0.811
zf2	7 days	0.449	0.566	0.634	0.67	0.692
	15 days	0.463	0.588	0.661	0.707	0.734
	30 days	0.465	0.593	0.67	0.714	0.754
	60 days	0.469	0.592	0.682	0.726	0.759
	no time limit	0.409	0.548	0.644	0.696	0.735
akka	7 days	0.417	0.631	0.754	0.847	0.889
	15 days	0.433	0.648	0.782	0.871	0.913
	30 days	0.431	0.657	0.784	0.881	0.922
	60 days	0.439	0.661	0.787	0.885	0.929
	no time limit	0.435	0.662	0.791	0.887	0.933
cakephp	7 days	0.376	0.546	0.641	0.714	0.748
	15 days	0.399	0.569	0.674	0.747	0.795
	30 days	0.431	0.622	0.72	0.785	0.824
	60 days	0.467	0.627	0.727	0.8	0.839
	no time limit	0.416	0.596	0.714	0.796	0.841
gitlabhq	7 days	0.341	0.514	0.604	0.66	0.699
	15 days	0.355	0.534	0.625	0.697	0.739
	30 days	0.376	0.554	0.656	0.718	0.76
	60 days	0.381	0.551	0.657	0.728	0.765
	no time limit	0.368	0.55	0.65	0.721	0.757