

Appendices

Table 1: Importance of each variable for each cell (1-5) with the self-organizing map of the student activities across the three courses (year 2020-2021).

	1	2	3	4	5
questions/module	0.958	-0.984	-0.684	1.103	-0.220
% public questions	0.378	-1.101	-1.183	0.309	-0.132
contributions/question	-0.613	0.676	-0.462	-0.574	-0.368
correct H5P ex.	0.152	0.059	-2.763	0.137	0.067
trials/H5P ex.	0.825	0.825	-0.718	0.540	0.050
correct learnr ex.	-2.956	-0.243	-0.991	-0.086	0.336
trials/learnr ex.	0.628	0.101	-1.171	0.580	-0.342
hints/learnr ex.	1.996	0.466	1.117	-0.143	-0.183
time/learnr ex.	1.331	-0.048	0.798	-0.106	-0.309
commits/ind. project	0.589	-0.702	-1.136	-0.383	-0.535
contributions/ind. project	0.086	-0.571	-0.623	-0.508	-0.501
commits/group project	0.366	-0.266	-1.656	0.660	-0.715
contributions/group project	0.080	-0.175	-0.821	-0.184	-0.532
% contribution to group projects	0.885	1.043	-1.417	0.209	-0.653
work done	0.036	0.144	-4.495	0.210	0.072
work done in time	-0.343	-0.554	-0.842	0.866	-0.485

Table 2: Importance of each variable for each cell (6-9) with the self-organizing map of the student activities across the three courses (year 2020-2021).

	6	7	8	9
questions/module	-1.146	-0.206	0.428	0.006
% public questions	-1.252	1.003	0.277	-0.144
contributions/question	2.235	-0.280	-0.082	-0.026
correct H5P ex.	0.167	0.155	0.165	0.185
trials/H5P ex.	-0.287	-0.695	-0.364	-0.355
correct learnr ex.	0.273	0.364	0.608	0.456
trials/learnr ex.	-0.153	-0.043	-0.276	-0.251
hints/learnr ex.	-0.331	-0.458	-0.442	0.405
time/learnr ex.	-0.232	-0.072	-0.013	-0.055
commits/ind. project	0.355	0.116	1.318	1.484
contributions/ind. project	0.046	0.238	0.917	2.037
commits/group project	-0.513	-0.238	1.069	0.739
contributions/group project	-0.193	-0.171	0.537	4.063
% contribution to group projects	-0.472	-0.257	0.007	1.364
work done	0.256	0.294	0.266	0.232
work done in time	-0.818	0.505	-0.187	-0.455