

Weekly report Week 10 (24/7/2023 - 28/7/2023)

For my progress report this week, I have finished training and testing all the result that I will use in my research paper and the result is shown as below

Precision	train																
test	1	2	3	4	5	6	7	8	9	10	11	12	13	Late Fusion	Late Fusion 12	Early Fusion	Early Fusion 12
1	1	1	0	0	0	0	0	0	0.508	0	0	0	0	0.573	0.747	1	1
2	0.959	1	0	0	0	0	0	0	0.036	0	0	0	0	0.611	0.875	1	1
3	0	0	0.999	0	0.166	0	0	0	0	0	0	0	0	0.591	0	1	1
4	0	0	0	1	0	1	0	0.166	0	0.668	0	0	0	0.65	0.18	1	1
5	0	0	0	0	0.999	0	0	0	0	0	0	0	0	0.64	0	1	1
6	0	0	0	0.828	0	1	0	0	0	0	0	0	0	0.647	0.268	1	1
7	0	0	0	0	0	0	1	0	0	0	0	0	0	0.656	0	1	1
8	0	0	0	0	0	0	0	0.999	0	0	0	0	0	0.654	0.999	0.999	0.999
9	0	0	0	0	0	0	0	0	0.999	0	0	0.001	0.195	0.617	0	0.999	0.999
10	0	0	0	0	0	0	0	0	0	0.999	0	0	0	0.645	0.001	0.999	0.999
11	0	0	0	0.053	0	0	0	0	0	0.998	1	0	0	0.626	0.122	1	1
12	0	0	0	0	0	0	0	0	0	0	0	0.991	0	0.576	0	0.997	0.997
13	0	0	0	0	0	0	0	0	0.877	0	0	0	0.999	0.623	0.002	1	1
Recall	train																
test	1	2	3	4	5	6	7	8	9	10	11	12	13	Fusion	Late Fusion 12	Early Fusion	Early Fusion 12
1	0.999	0.023	0	0	0	0	0	0	0.001	0	0	0	0	0.985	0.042	1	1
2	0.453	0.999	0	0	0	0	0	0	0	0	0	0	0	0.983	0.466	0.999	0.999
3	0	0	0.998	0	0	0	0	0	0	0	0	0	0	0.993	0	0.998	0.999
4	0	0	0	0.979	0	0.184	0	0	0	0.215	0	0	0	0.978	0.444	0.987	0.995
5	0	0	0	0	0.986	0	0	0	0	0	0	0	0	0.982	0	0.97	0.997
6	0	0	0	0.58	0	0.998	0	0	0	0	0	0	0	0.973	0.028	1	1
7	0	0	0	0	0	0	0.871	0	0	0	0	0	0	0.976	0	0.833	0.984
8	0	0	0	0	0	0	0	0.975	0	0	0	0	0	0.991	0.001	0.978	0.989
9	0	0	0	0	0	0	0	0	0.999	0	0	0	0	0.992	0	0.999	0.999
10	0	0	0	0	0	0	0	0	0	0.999	0	0	0	0.976	0	0.999	0.999
11	0	0	0	0.003	0	0	0	0	0	0	0.03	0.999	0	0.981	0.031	0.999	0.999
12	0	0	0	0	0	0	0	0	0	0	0	0.961	0	0.973	0	0.949	0.988
13	0	0	0	0	0	0	0	0	0.011	0	0	0	0.998	0.983	0.007	0.998	0.999
F1-Score	train																
test	1	2	3	4	5	6	7	8	9	10	11	12	13	Fusion	Late Fusion 12	Early Fusion	Early Fusion 12
1	0.999	0.045	0	0	0	0	0	0	0.003	0	0	0	0	0.642	0.08	1	1
2	0.615	0.999	0	0	0	0	0	0	0	0	0	0	0	0.698	0.608	0.999	0.999
3	0	0	0.999	0	0	0.001	0	0	0	0	0	0	0	0.667	0	0.999	0.999
4	0	0	0	0.989	0	0.307	0	0	0	0.279	0	0	0	0.735	0.256	0.993	0.997
5	0	0	0	0	0.993	0	0	0	0	0	0	0	0	0.713	0	0.984	0.998
6	0	0	0	0.658	0	0.999	0	0	0	0	0	0	0	0.726	0.051	1	1
7	0	0	0	0	0	0	0.929	0	0	0	0	0	0	0.728	0	0.909	0.991
8	0	0	0	0	0	0	0	0.987	0	0	0	0	0	0.742	0	0.988	0.994
9	0	0	0	0	0	0	0	0	0.999	0	0	0	0	0.683	0	0.999	0.999
10	0	0	0	0	0	0	0	0	0	0.999	0	0	0	0.724	0	0.999	0.999
11	0	0	0	0.005	0	0	0	0	0	0.059	0.999	0	0	0.7	0.05	0.999	0.999
12	0	0	0	0	0	0	0	0	0	0	0	0.976	0	0.675	0	0.972	0.993
13	0	0	0	0	0	0	0	0	0.022	0	0	0	0.999	0.695	0.004	0.999	0.999

In addition, due to my misunderstanding the method that I'm using isn't ensemble but it is a fusion method so I have change my research title to botnet detection with fusion machine learning method.

Currently still not done writing the paper but hopefully it will be finished by the end of this week. Therefore, for this week I will continue writing paper.