## Binary file structure .bytes file 00401000 00 00 80 40 42 28 00 1C 02 42 00 C4 00 20 04 20 00401010 00 00 20 09 2A 02 00 00 00 08 8E 10 41 0A 21 01 00401020 40 00 02 01 00 90 21 00 32 40 00 1C 01 40 C8 18 00401030 40 82 02 63 20 00 00 00 91 01 02 21 00 82 00 04 00401040 82 20 08 83 00 08 00 00 00 00 02 00 60 88 10 80 00401050 18 00 00 20 A9 00 00 00 04 04 78 01 02 70 90 00401060 00 02 00 08 80 12 10 00 00 00 04 10 00 80 00 40 19

Uni-gram BOW is created using the frequency of each Keyword (256 hexadecimal keywords + 1 feature as file size) from each byte file

## | Name |

## Assembly file structure



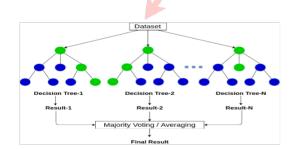
Uni-gram BOW is created using the frequency of each Keyword (52 opcodes + 1 feature as file size) from each asm file

								V												
	ID	HEADER:	.text:	.Pav:	.idata:	.data:	.bss:	.rdata:	.edata:	.rsrc:	 esi	eax	ebx	есх	edi	ebp	esp	eip	Class	size
0	01kcPWA9K2BOxQeS5Rju	19	744	0	127	57	0	323	0	3	 66	15	43	83	0	17	48	29	1	0.078190
1	1E93CpP60RHFNiT5Qfvn	17	838	0	103	49	0	0	0	3	 29	48	82	12	0	14	0	20	1	0.063400
2	3ekVow2ajZHbTnBcsDfX	17	427	0	50	43	0	145	0	3	 42	10	67	14	0	11	0	9	1	0.041695
3	3X2nY7iQaPBIWDrAZqJe	17	227	0	43	19	0	0	0	3	 8	14	7	2	0	8	0	6	1	0.018757
4	460ZzdsSKDCFV8h7XWxf	17	402	0	59	170	0	0	0	3	 9	18	29	5	0	11	0	11	1	0.037567

Both asm & byte files are merge / concatenated , both after combining gives total of 257+53 = 310 features to train our model

	0	1	2	3	4	5	6	7	8	9	 edx	esi	eax	ebx	ecx
0	0.002525	0.000082	0.000013	0.000017	0.000016	0.000012	0.000004	0.000003	0.000099	0.000004	 0.001622	0.000452	0.002331	0.000678	0.000013
1	0.010740	0.001771	0.000416	0.000489	0.000886	0.000320	0.000332	0.000662	0.000994	0.001810	 0.015494	0.012723	0.026849	0.016721	0.003503
2	0.005374	0.000624	0.000130	0.000249	0.000129	0.000100	0.000105	0.000168	0.000174	0.000170	 0.001546	0.000960	0.001085	0.003154	0.000471
3	0.008818	0.000957	0.000176	0.000247	0.000174	0.000207	0.000123	0.000221	0.000222	0.000236	 0.000324	0.010678	0.000382	0.012012	0.001338
4	0.037465	0.000991	0.000251	0.000246	0.000315	0.000366	0.000252	0.000369	0.000447	0.000460	 0.008968	0.004260	0.014892	0.007386	0.002357

We are using Random Forest as our first Algorithm to Train Model



We are using XgBoost as our Second Algorithm to Train

Model

