

## Method for Simulation

Neuron Model used was the L5\_DBC\_cAC which can be downloaded from the Blue Brain Project website (<https://bbp.epfl.ch/nmc-portal/downloads>).

A combination of Presynaptic m-types were applied from different layers. For example in the excel sheet provided, PC\_PC\_LBC\_IPC would correspond to L23\_PC, L4\_PC, L5\_LBC and L6\_IPC m-types where L corresponds to Layer. The number at the end of the sheet name corresponds to the step current applied.

The simulation was run for 3000 ms. The results are provided with this email.

## Results from RapidMiner

Accuracy: 83.35% +/- 3.71%

A Confusion Matrix is provided below:

	true PC_PC_LBC_ IPC	true MC_SP_STPC _BP	true PC_NBC_UTPC_ UTPC	true PC_PC_STPC_ IPC	class precision
pred. PC_PC_LBC_IPC	127	0	2	32	78.88%
pred. MC_SP_STPC_B P	0	237	0	0	100.00%
pred. PC_NBC_UTPC_ UTPC	81	1	258	0	75.88%
pred. PC_PC_STPC_IP C	53	0	1	229	80.92%
class recall	48.66%	99.58%	98.85%	87.74%	