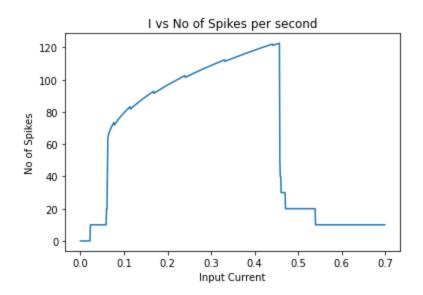
BT6270: Computational Neuroscience Assignment 1

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Values of the required variables

No Action potential threshold current, I1 = 0.023 μ Amp Finite Action potential threshold current, I2 = 0.061 μ Amp Continuous firing and distorted Action potentials, I3 = 0.457 μ Amp

Graphical depiction of Input current vs firing rate



Observations

- 1. Even though the firing rate has reduced drastically at around 0.5, there still exists a time window of Voltage peaks.
- 2. time_interval variable should be greater than a threshold value to get meaningful depictions. This can be explained partly by the above fact and also there are considerable peaks even in case of short discontinuous signals. So this factor has been taken into account and adjusted.

Attachments

BE17B023A1.zip

- be17b023A1report.pdf
- be17b023A1.py