Learning to operate web-sites using Reinforcement Learning

Traffic Classification based on Machine Learning becomes more important as encryption becomes more prevalent in communication networks. Training machine learning models requires realistic data. Acquisition of this data is often a manual task. Automation frameworks exist but are difficult to use, are detected and blocked by website operators, and produce qualitatively bad data, i.e., models trained on this data do not generalize.

The task of the student is to develop a Reinforcement Learning based system for data acquisition. The goal is to collect qualitatively good data in an automated manner.

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