Forschungspraxis

Machine learning for in-network prediction and classification

In this work, Machine Learning (ML) alternatives will be evaluated to perform in-network prediction and classification. The goal is to develop ML-based applications that help in network optimization, reconfiguration, telemetry and resource allocation.

Some of the tasks include:

- Dataset creation
- ML algorithm implementation
- Evaluation in terms of accuracy and resource utilization

If you are interested, please send me your CV and your transcript of records

Prerequisites

Knowledge in the following topics:

- Computer networking
- Software Defined Networking (SDN)
- Programmable data planes (P4)
- Machine learning
- Programming languages: (Python, C, Java)
- Software development tools: (GIT, some IDE)
- Linux, its CLI and networking related tools: ssh, iperf, mininet, etc..

Advisors

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