

AutoFeatures: Knowledge-Driven Automatic Feature Engineering for Detection Systems

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Abstract

Feature engineering is known to be one of the most time-consuming steps to build machine learning detection models. Computer security experts usually perform this tedious step manually by relying on their knowledge regarding the detection target. In this paper, we introduce AutoFeatures, a tool that automates feature generation. It generates interpretable features and enables computer security experts to guide the process with their valuable domain knowledge.

Keywords:

Intrusion Detection; Machine Learning; Feature Engineering