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Hello.

The following submission has been edited.

Track Name: Special Session 2: Machine Learning for Natural Language Processing

Paper ID: 684

Paper Title: Detecting Prompt Injection Attacks Against Application Using Classifiers

Abstract:

Prompt injection attacks are a growing concern in various domains, as they can compromise the security and stability of critical systems, from power grids to large-scale web applications. In this research, we propose a comprehensive approach for detecting and mitigating prompt injection attacks against-web applications using predefined system prompts- by highly curating a prompt injection dataset and training it on classifiers like Long Short-Term Memory (LSTM) networks to FNN and machine learning models such as Random Forest Classifier and Naive Bayes. We build upon a pre-existing dataset from HuggingFace, named HackAPrompt-PlaygroundSubmissions. Our proposed solution aims to improve the detection and mitigation of prompt injection attacks, ensuring the security and stability of the targeted applications and systems.

Created on: Tue, 05 Sep 2023 15:31:54 GMT

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Secondary Subject Areas: Not Entered

Submission Files: Detecting Mitigating Prompt Injection Attacks Against Applications Using Classifiers.pdf (2 Mb, Tue, 05 Sep 2023 15:31:37 GMT)

Submission Questions Response: Not Entered

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