

Loki

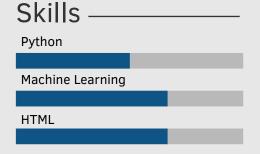
A ML-platform about adversarial attacks



3 people

Project Description

Is your nightmare called adversarial attack? Come face it here, and develop a web platform allowing to observe the influence of a selected attack on a dataset.



(*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

Level 1) You may now pursue to the level 1 of the project.

- Web platform
 - Design the architecture of your web platform to make sure everything is running online easily. Don't start from scratch!
- * Role

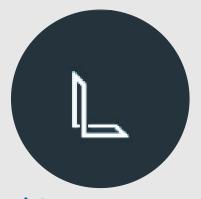
Add the possibility to be a simple member or a administrator, with a special access.

- * Upload a picture
 - Implement a webpage to upload a picture or a dataset.
- Display and store results

Add a feature to display precise results on the effectiveness of the selected previous attack. Don't forget to set up a way to store it, linking it to your own account.

- Database
 - Implement a database for your need.
- Basic unit tests

Implement simple unit tests to be sure that everyone can create an account, upload a picture, obtain result, etc.



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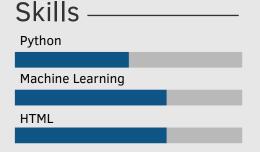
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Level 2 Level 1 must be unlocked to read this section

- Developper Documentation Required for IvI 2 validation Document your project (not necessarily only in the source code) so that a newcoming developper could understand and contribute to the code.
- Required for IvI 2 validation Produce a release as a source archive or git tag. The release files should have up-to-date README and INSTALL files and more generally allow anyone to deploy the application.
- Attack in action
 Implement at least one typical attack to discover the result of your job.
- *** Boost your tests

Study the paper that you can find here: https://arxiv.org/pdf/1608.04644.pdf. Collect the same classifier and datasets to check that you obtain a very close result when you compare it to this article.