Phase-8 Testing RoadMap

In machine learning, a programmer usually inputs the data and the desired behavior, and the logic is elaborated by the machine. This is especially true for deep learning. Therefore, the purpose of machine learning testing is, first of all, to ensure that this learned logic will remain consistent, no matter how many times we call the program.

* **Unit tests.** The program is broken down into blocks, and each element (unit) is tested separately.
* **Regression tests.** They cover already tested software to see if it doesn’t suddenly break.
* **Integration tests.** This type of testing observes how multiple components of the program work together.

Moreover, there are certain rules that people follow: don’t merge the code before it passes all the tests, always test newly introduced blocks of code, when fixing bugs, write a test that captures the bug.

Graphical user interface, application

Description automatically generated

* There are different metrics for evaluation of the model
  + Accuracy
  + Loss etc

Mobile App Testing:

* The mobile app can be tested in many ways such as screen testing, functionality testing, unit testing etc.
* There are testing libraries like reactnative-testing library & jest for testing a mobile app.
* There are open source frameworks like Appium for testing the mobile apps.

The scripts are written with expected behaviour in which the testing gives whether the expected behaviour is observed or not.

A screenshot of a computer

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