



# Machine Learning Engineer Challenge

## Introduction:

Information overload is real and it takes quite a bit of time to sort out a lot of unstructured data. To make our movie nights easier, it would be useful to be able to understand at a glance what a movie is about.

## The challenge:

We would like you to develop a simple command-line application: given a title and a short movie description it should return an appropriate genre.

## Input Arguments

We expect the application to take these arguments:

```
movie_classifier --title <title> --description <description>
```

Input constraints:

```
--title: the movie title. A mandatory non-empty string.
```

```
--description: the movie description. A mandatory non-empty string.
```

Usage example:

```
movie_classifier --title "Othello" --description "The evil Iago pretends to be friend of Othello in order to manipulate him to serve his own end in the film version of this Shakespeare classic."
```

## Output format

```
{
  "title": "Othello",
  "description": "The evil Iago pretends to be friend of Othello in order to manipulate him to serve his own end in the film version of this Shakespeare classic.",
  "genre": "Drama"
}
```

## Guidelines:

- Feel free to use any programming language, framework and library you want.
- Make it concise, readable and correct.
- The performance of the model are not our main concern: we want to have a peek at how you structure an ML workflow, so don't spend too much time tuning your classifier but focus on delivering a reasonably production-ready system.

- We do not prescribe a genre taxonomy: feel free to use whatever genres you believe to be adequate for classifying movies.
- You can use any dataset to train your classifier and complete the assignment, as long as it's publicly available so that we can reproduce your work. We suggest the [MovieLens dataset](#), but the final choice is yours.
- Write automated tests for your solution!

**Please describe in `README.md`:**

- How to run it (don't assume anything already installed);
- What libraries/programming language/algorithms you used and why;
- How to reproduce your work (training included).

**Bonus points for:**

- Good comments;
- Dockerfile.

Have fun, take your time. When you are done, please send a link to your public Github repo at [recruiting@truelayer.com](mailto:recruiting@truelayer.com)