



1. Task Statement

It's time to deal with a real data science problem from the field of gold mining. This project was provided by Zyfra.

When you finish, send your work to your project reviewer. You will receive feedback within 24 hours. After that, if there are any necessary changes to be made, you'll send it in for a second review.

Usually, you'll have to repeat this process several times until you get the green light from the reviewer and all the corrections are approved. It's all part of the job.

Your project will be considered complete once the project reviewer approves it.

Task statement

Prepare a prototype of a machine learning model for Zyfra. The company is developing efficiency solutions for the heavy industry.

The model should predict the amount of gold extracted from gold ore. You have the data on extraction and purification.

The model will help optimize production and eliminate unprofitable parameters.

You will need to:

1. Prepare the data
2. Perform data analysis
3. Develop and train a model

To complete the project, you may want to use documentation from *pandas*, *matplotlib*, and *sklearn*.

The next lesson is about the ore purification process. Choose for yourself which information you will need for model development.