

# AI Engineer

You are working as an AI engineer at Hostinger company. During the retrospective meeting of a product team, you heard that our domain tool is lacking a domain suggestion feature compared to market competitors. Competitors have a feature where domain names are suggested by the user-provided business description. You decided to conduct research and build a few proofs of concepts on how such a feature might be implemented.

You decided to test out a few possible solutions to a problem:

1. Evaluate prompt engineering techniques.
2. Create a small dataset and evaluate the fine-tuning approach with open-source LLMs.

After the experiments, you decided to:

1. Write an API for the domains team to test one of your experiments (prompt engineering or fine-tuning).
2. Prepare a document with your findings and experiments results.
3. Write suggestions for the domains team on how to move further with feature implementation.

## Constraints of a task:

1. Write code in Python programming language.
2. All your experiments should be documented in a Notebook.
3. Experiments should be reproducible, and fine-tuned models should be available for download.
4. Bonus if you could deploy the fine-tuned model.