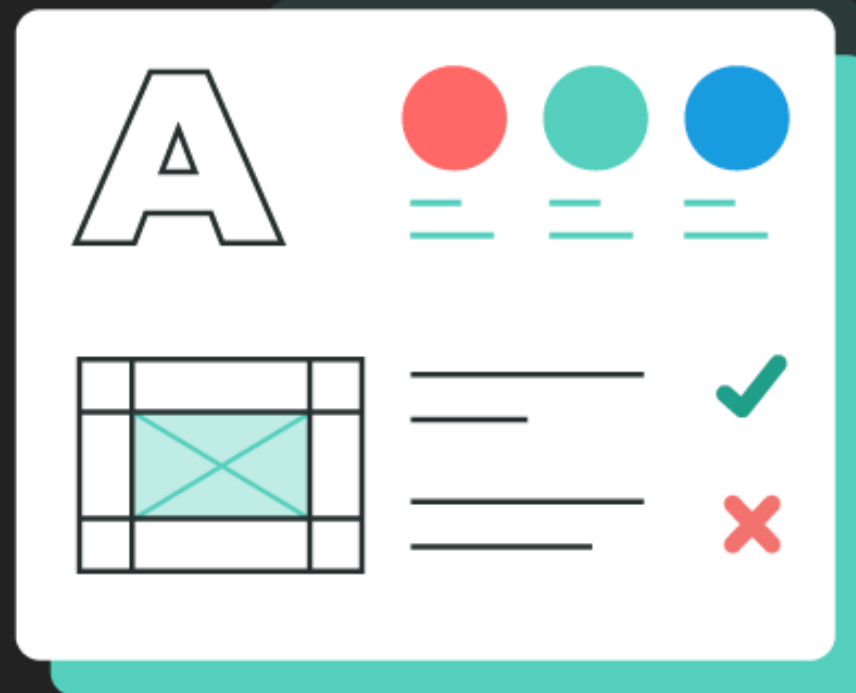


Generative AI Kata

2024

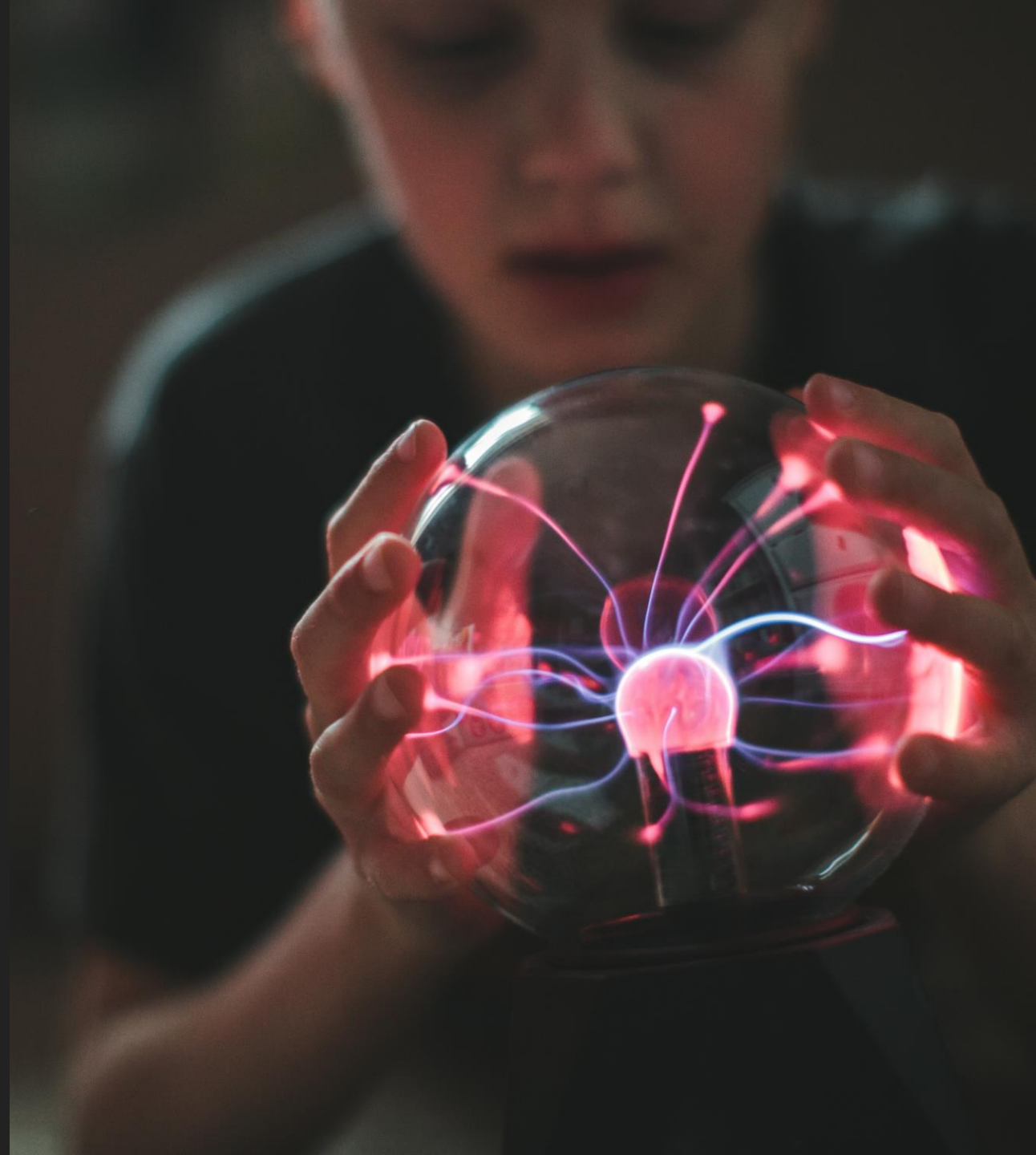


Approach to building the best Kata

- Understand the Problem!!
- Ask Questions to get clarifications. Ask relevant questions and listen to others' questions
- When in the breakout room, Brainstorm with the team
- Can use any tool (**complying with EPAM policies**)
- Not Expecting a Document

For your consideration:

- ✓ Prompt effectiveness
- ✓ Prompt technique applied
- ✓ Context
- ✓ Output expectations
- ✓ Test cases
- ✓ Less human intervention
- ✓ Design patterns
- ✓ Tech stack specific output
- ✓ Usage of guiding principles – SOLID, KISS, YAGNI
- ✓ Workable solution





Problem Statement

Theme

Assessment Tool for
Problem Solving Skills for
Data Structures and
Algorithms

Team

B08

Objective

Develop an app or tool simulating an assessment by generating medium complex problems for assessing DS-ALGO skills.

Requirements

- The app/tool should accept the problem's complex(Easy|Medium|Hard) level to be assessed by the Developer.
- It should provide problems based on the Data Structures(Arrays, List...) or Algorithms(DP, Recursion, Backtracking, Sorting, Searching, Greedy...) the developer wants to assess.
- The tool should be able to assess the complexity of the solution after the developer submits the solution.
- The tools should also give grades 1-5 based on the clean code, best complexity, and testability.
- Provide a simple user interface for interacting with the assessment tool

DIAL API KEY:92a0ee28127347cfbb3e2b5d828bed12

USAGE

```
import os
from openai import AzureOpenAI

KEY = <API_KEY>

client = AzureOpenAI(
    api_version="2023-08-01-preview",
    azure_endpoint="https://ai-proxy.lab.epam.com",
    api_key=KEY,
)

for deployment in ['gpt-4', 'Mixtral-8x7B-Instruct-v0.1', 'gpt-35-turbo-0613', 'amazon.titan-tg1-large']:
    print(deployment)
    response = client.chat.completions.create(
        model=deployment,
        temperature=0,
        messages=[
            {
                "role": "user",
                "content": "Write a Java program for prime number generation"
            }
        ],
    )
    print(response.choices[0].message.content.strip())
```