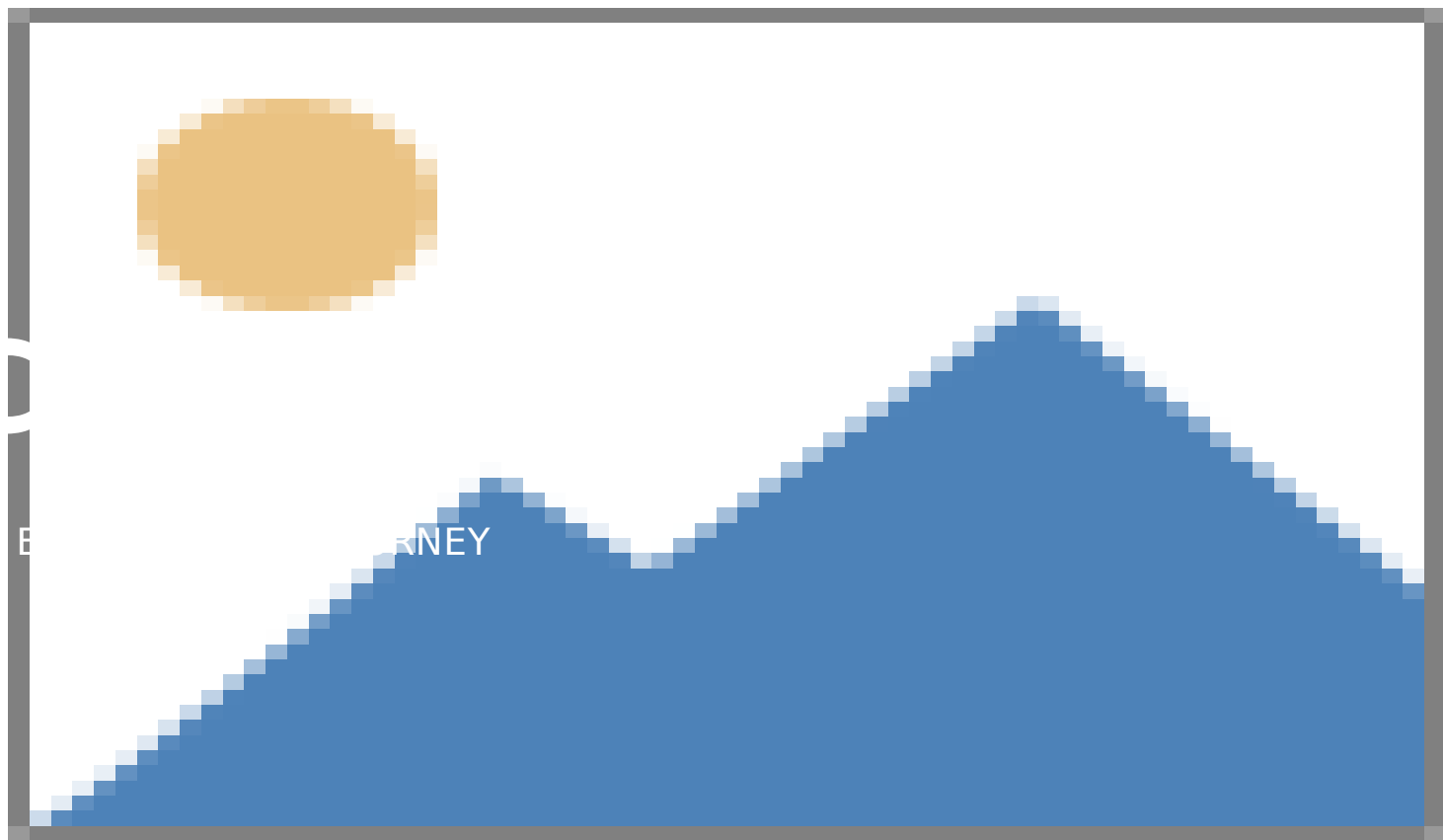# ML ENGINEER – ML JOURNEY
BACKGROUND

At adidas, Data & Analytics is at the core of everything we do, and ML Journey team has a mission to scale machine learning capabilities across adidas by:

- Providing plug & play templates for ML use cases
- Guiding data science teams to use ML platform efficiency
- Future-proofing the ML platform for upcoming projects

Our goal is to empower our data science teams to speed up ML deployment process with a focus on quality and reproducibility.

As a team member, you'll support adidas' internal audience, including digital analysts, data scientists, management, and planning teams, all working on consumer-facing products like digital communications and website & app personalization.

Right now, we're searching for a **Machine Learning Engineer** in **Porto** to join us. You'll be a key player in ensuring our ML platform is ready to tackle any challenges that come our way.

ML ENGINEER – ML JOURNEY
BACKGROUND

The product data team consists of data scientists, engineers, machine learning engineers, architects, and product owners distributed across the three functional areas:

- Management
- Architecture
- Data science, and Engineering

The team is working on improving the personalization experience for customers by using sophisticated recommender systems to recommend similar products based on product descriptions, with the goal of increasing sales.

The team is seeking support from us to understand our platform offerings and how to bring their project efficiently to the platform adhering MLOps best practices.
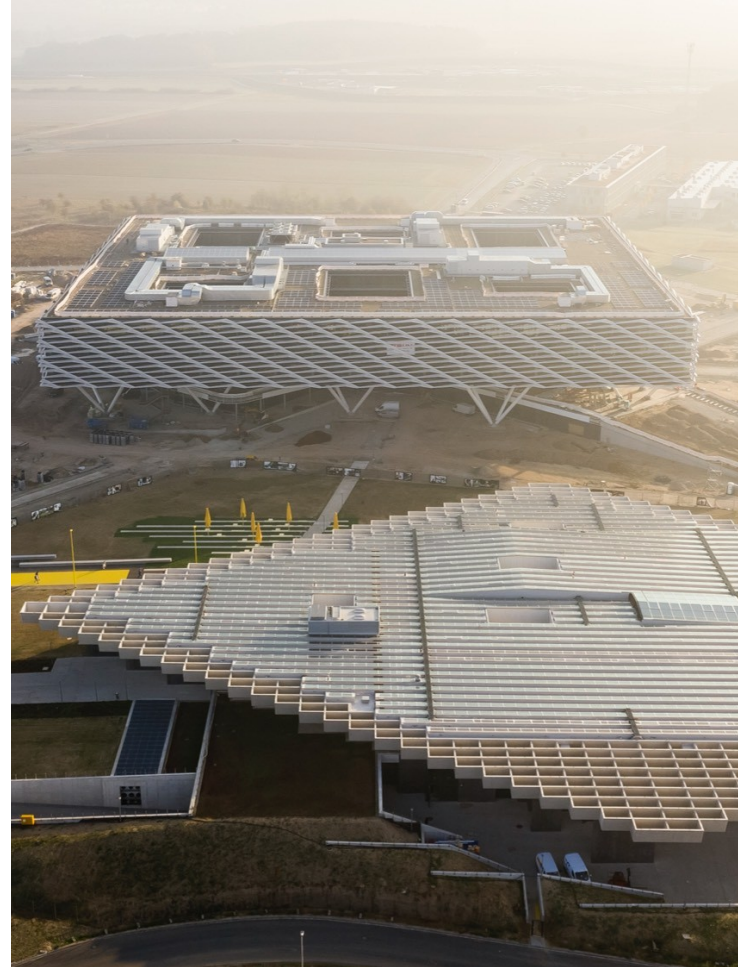
ML ENGINEER – ML JOURNEY (CASE STUDY)

As a machine learning engineer, your task is as follows:

▪ With the information you have, please visualize the ML architecture you would suggest for this task and explain how the different components work together

▪ Train a model using the product description provided in the dataset that can be used to generate a product similarity score

▪ Bring that model in production ready state based on the ML architecture you suggested

Note: *For this case study, the objective is not to achieve model with the highest accuracy, but to see as an ML engineer what are the things that you'll consider while bringing the model in production. Also, a simple PoC to demonstrate your project.*

ML ENGINEER – ML JOURNEY
MANAGEMENT TOPIC

Beyond technical topics, pls. provide your thoughts/solutions on the following **management topics**:

- How would you address difference of opinion in a team?
- What are the characteristics of a good team player according to you?
- How would success after 2-3 years for you look like and how would you measure it?

ML ENGINEER – ML JOURNEY
CASE STUDY - APPENDIX

In case you need to, please take reasonable assumptions and explain them.

You have a total of **90 minutes** to explain your approach to the case study to the interviewing panel.

Final note:

This is not about being picture-perfect and presenting glossy marketing slides –
ideas, solution quality and architecture count more than a nice-looking presentation!