

# Hepsiburada

## Recommendation Team

### Data Scientist Assignment

#### Task

We want to create a “**Related Products**” recommendation for the cart page of an online grocery store. When a customer is landed on the cart page, you should provide a recommended product list which is related to the items in the cart.

#### Dataset

You are given two datasets

- **events.json** : add2cart events for a period of time
- **meta.json** : meta info of products in the events

#### Expected Result

- You should **serve** your model with an API which retrieves products in the cart as request parameters and returns recommended products (top ten) with scores.
- Provide example request and responses of your API
- Provide design document of your solution with pros and cons (any decision criteria)
- Share your work with us, preferably through a GitHub repo or with another proper way. Give instructions how to run your code if anything else is needed (lib dependency etc.)
- Provide also explanations of the potential, better or different approaches that you could do if you could have more time, etc. (if-needed)

#### Notes

- You should implement your solution using Python (via Notebook or IDE)
- You are free to choose any libraries of frameworks
- The following criteria will be considered during the evaluation of the assignment:
  - How you structure the problem, use the dataset, choose the model architecture, metrics, KPIs and baseline model... (give us any important decision criteria)
  - Code Quality & Readability & Expressiveness & Visualization
  - Testing, packaging and deployment.
  - Explaining the model outputs, feature importance is a plus
  - Choose your solution wisely, considering the time you have.

You have **7** days to fulfill the assignment. Please, do not hesitate to contact us ([recommendation@hepsiburada.com](mailto:recommendation@hepsiburada.com)) in case of any questions or suggestions.

**Good luck :)**