Kovai.co - Assessment

Hi there 👋

Congratulations on making it to the assessment round!

Please go through the attached prompt and feel free to reach out to us for any further clarification. You're expected to complete this assessment **within 1 week,** but you can of course send us your submission any time before that, whenever you are done. For us, the earlier the better.

We'd like to learn more about how you think and work on this task. We're curious about how you approach a problem (process), create and evaluate possible solutions(exploration & breadth), and then communicate that understanding to others (presentation).

Problem statement:

There are 15 participants who wore accelerator meter to collect data on various actions. The accelerator meter data contains x acceleration, y acceleration, z acceleration, and label. Your task is to build a model that can classify an action based on the input accelerator meter data (x acceleration, y acceleration, z acceleration).

Dataset:

Dataset details are available in the zip file. Please read readme file to understand the dataset.

Task and expected outcome:

- Python code in GitHub.
- Interface to input accelerator meter data (x acceleration, y acceleration, z acceleration) such that it can classify which action that a participant has undertaken.
- Simple project report that highlights output of exploratory data analysis, any interesting insights with visualization, algorithm technical documentation

The above questions are designed to understand your analytical and critical thinking abilities that are relevant to the role. Please feel free to reach out to us if you have any questions.

Wishing you good luck! 🤞