

Summary of the Q&A Session - Challenge 3:

Future proof power consumption prediction

What is the main focus of the challenge?

The challenge focuses on clustering customers and forecasting these clusters, using AI to analyze and predict electricity consumption over a five-year period, based on a model using available public data combined with historical data.

Is the challenge limited to electricity solutions?

Currently, the focus is on electricity, but there may be future opportunities for solutions in other areas.

What is the expected granularity for the forecast?

The initial thought is a monthly basis forecast, focusing on quantity. Each scenario should include a percentage with the respective weighting to make them easier to comprehend.

Does the company want ownership of the IP or a software-as-a-service solution?

The company prefers to have the code so that it can be adapted and used internally, potentially in collaboration with the solution provider.

Preferred tools and software: Python, GitHub Repository and Jupyter notebook.

What kind of data will be used for the forecasting models?

AI models should utilize publicly available data such as government programs, road and traffic movements, e-mobility registrations, and media reports to predict changes in population activities and electricity consumption.

What are the specific objectives for the AI models in this challenge?

The AI models should not only rely on historical data but also incorporate relevant future developments in the field to predict electricity consumption for various customer clusters.

Are there specific scenarios the models need to consider?

The models should provide a best, average, and worst-case scenarios for each customer cluster, reflecting the impact of publicly available data in percentages.

Is there a specific technology or approach preferred for the solution?

While AI is mentioned, the company is open to any technology that can effectively provide the solution, whether it's through AI, automated searches, or other methods.

What is the time frame for the energy consumption forecasts?

The company is looking for predictions about five years into the future, displayed on a monthly basis.

How important is the customization and adaptability of the solution?

The company emphasizes the importance of a solution that can be customized and adapted to their specific needs, especially after the proof-of-concept phase.

Can solutions be adapted from existing technologies or models?

Yes, the company is open to adaptations of existing technologies or models, especially if they can be aligned with the specific goals of the challenge.

If not selected for the challenge, is there still a possibility of working with the company?

Yes, the company is open to exploring other forms of cooperation with participants who have viable solutions, even if they are not selected for the main challenge.