

AI-development project

Metropolia internal development project

Timo Nykopp

Description

Clean and sustainable solutions innovation hub is a part of Metropolia's internal development project which focuses on AI usage in education, commercial activities and RDI-operations. The Broad aim is to find out and develop effective and novel ways to use AI in practically, such as using existing tools to help in the processes.

Innovation hub focuses on developing AI assisted chatbots to help grant writing process. The question we are trying to find answers to is how to utilize chatbots the most effective way to help our grant writing co-ordinator and principal preparers of these projects so that the process would go as smoothly and quickly as possible.

Assumptions

We have few basic assumptions

1. Our first assumption is that chatbot is a useful tool for the writing process.
2. Chatbot that is localized is more useful than general one.
3. All the chatbots take resources to upkeep and develop

Background for the assumptions

The general idea to use AI and its capabilities to create text start to be universally accepted fact. Recent development of large language models and applications based on this development is prevalent and it will change at least some part of human driven writing processes.

Localized chatbot is more useful because it is possible to control the information given to them. This is useful in attempt to create more meaningful and truthful created texts. Localization does tackle the problem of information security as well as the localized assistant is not connected to wider world. This approach of course takes away all the information a Chat GPT or other generalized AI-models do have. But using those to support the localized ones is of course possible.

As such any chatbot takes time and resources to develop and upkeep. The time and resources being unknown and worth finding out in such pilot. Risk being the believe that an organization could develop own chatbots cheaper than purchased ones.

Approach to pilot

From these assumptions we have created the following approach to test. We will use a set of purchased AI assistants from Ai assistants from Digiole and we will develop our own chatbot to Google cloud services. Our target with this approach is to use and compare chatbots on the usability, resources and development work. This way we can quickly gather data from two different approaches and make a preliminary comparison between them. Our pilot case for this project is a grant application based on the content of this pilot and the course that is being created within the larger project within Metropolia.

Resources

This pilot has four persons as a resources.

Timo Nykopp as a product owner 50 hours of work time

Patrik Asikainen as a AioT garage host to provide support to AI development

Pepe Ta as a project worker to do the practical development of the chatbots

Riikka Kuusisto as a customer with 50 hours of work

Tools

Google cloud services

5 chatbots from Digirole

Chat GPT4

Project model

This project will use Ash Maurya's 90 day cycle model for developing a service.