

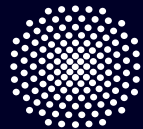


Engineering Industrial Applications with Generative AI

Ferienakademie Course 2

Sarntheim (Italy), September 22 - October 4, 2024

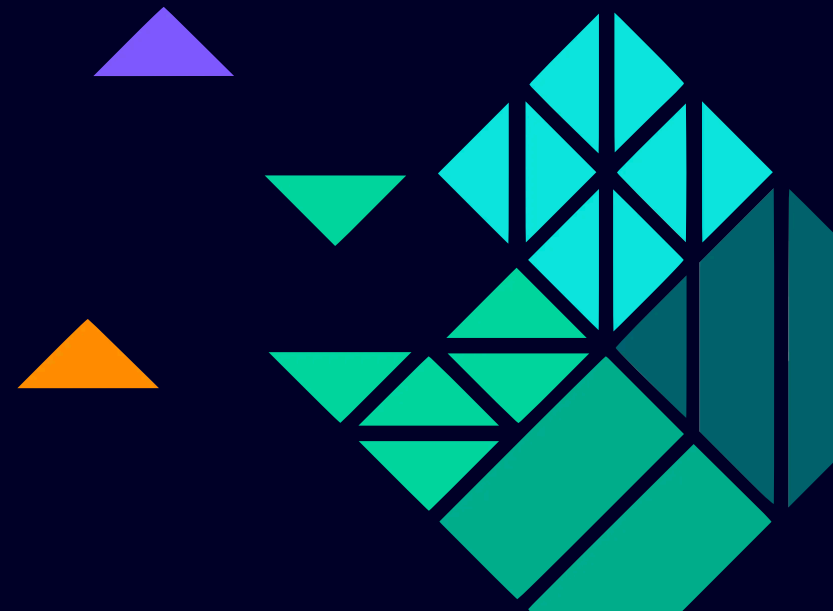
Participating Universities



Universität Stuttgart

In cooperation with

SIEMENS





Edge configuration

Dominik, Fabian, Frank, Hesam,
Leander, Mikhail, Niclas, Tim



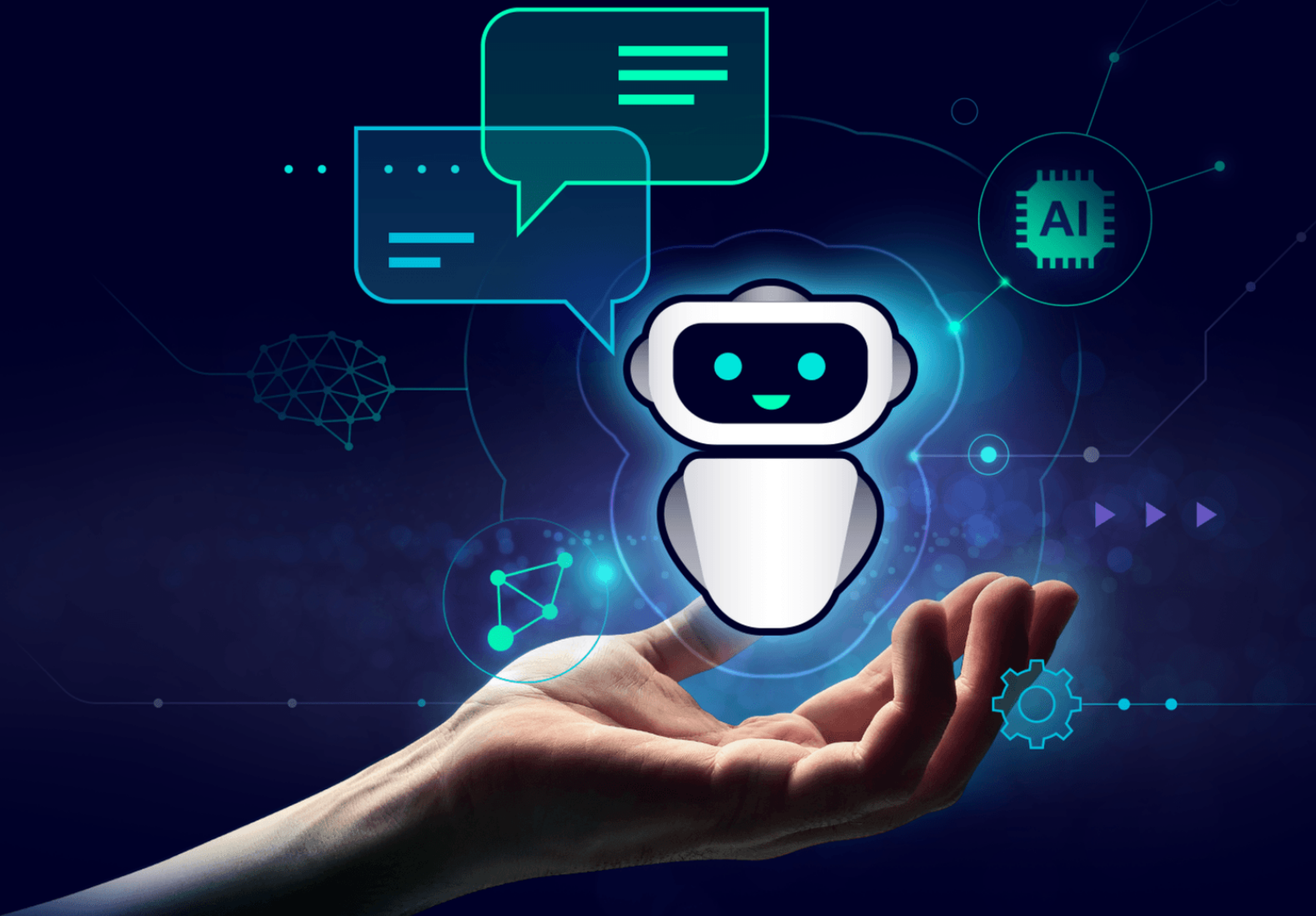
Problem Statement



Currently engineers take up to 40 hours to set up **edge devices.**

Christoph S.

Proposed Solution

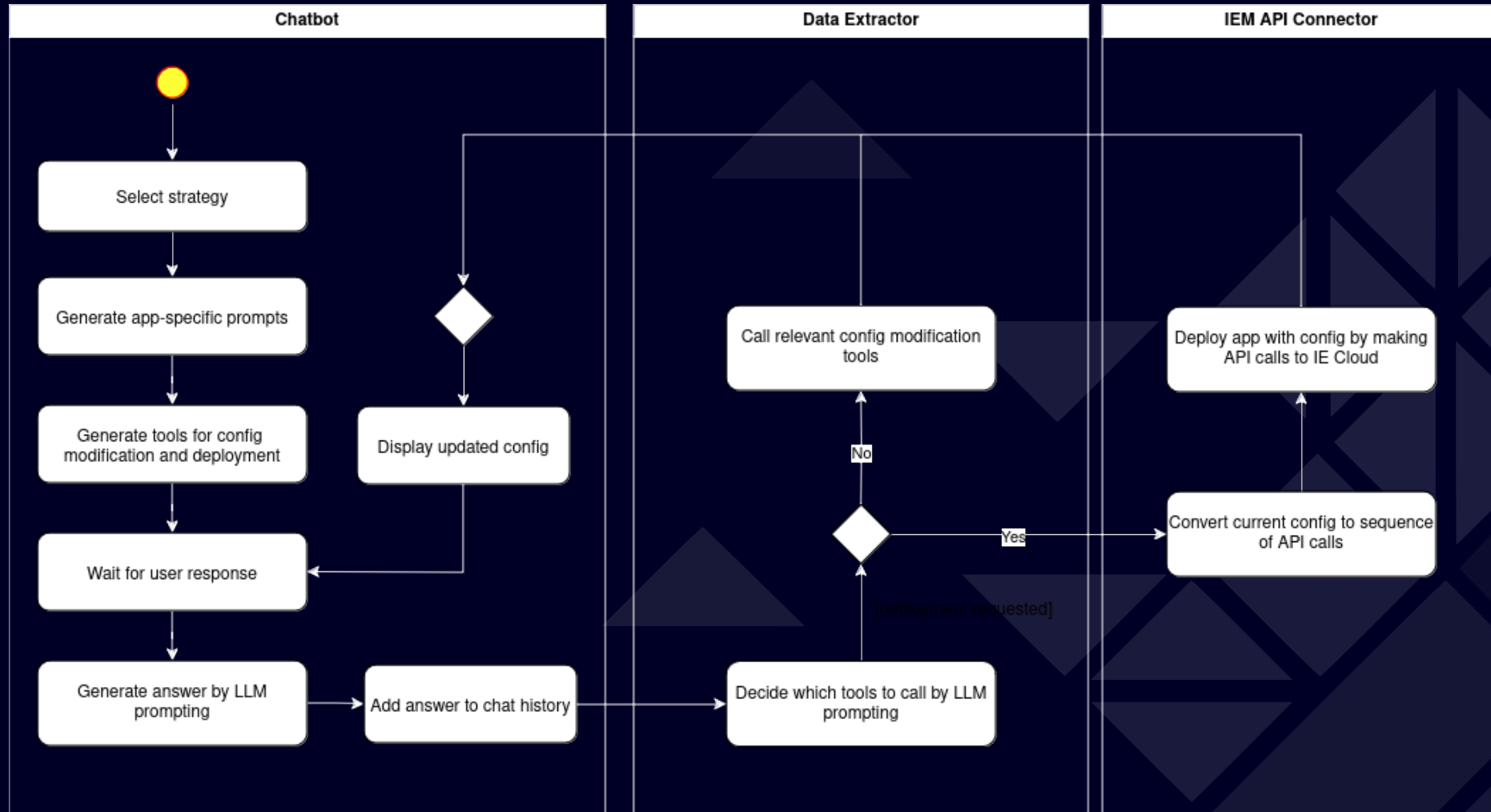


Features



- Configuration of IE Apps
- Support with IE Configuration knowledge
- Direct deployment

Architecture



Demo



Management - Industrial Edge

streamlit_app

configuration loaded

your API Settings

Deploy

Configuration Generator

Configure your LLM Access in the input below and write your description in the chat input. The assistant will generate a configuration for you.

Target

☒ Edge Config

Write something

>

Challenges



Scalability is highly dependent on

- **The documentation of IE apps**
- **Quality of models to generate structured output**
- **Further abstractions to ease the configuration**

Future Work



- Adding more apps like **Databus**, **Cloud Connector** etc.
- Overview over the current installed configurations
- Change existing configurations in IEM using the **chatbot**
- Improve the **general assistant capabilities** of the Edge configurator