# Objective

The goal of the project was to design a multi-agent AI system capable of:

* + Researching company profiles,
  + Generating innovative AI/GenAI use cases,
  + Suggesting useful datasets for implementation.

All this needed to happen without relying on paid API keys, working locally instead.

# Methodology

The system is structured into three intelligent agents:

Research Agent: Creates a company profile.

Use Case Agent: Generates AI/GenAI use cases. Dataset Agent: Suggests real, useful datasets.

Tools Used:

* Hugging Face Transformers
* Pre-trained GPT-2 model
* Python 3.11

# Architecture Flowchart

Flowchart:

Start -> Input Company Details -> Research Agent -> Use Case Agent -> Dataset Agent -> Display Results

-> End

# Results

Example Run:

Inputs: Zara, Fashion Retail, Customer Personalization

Outputs:

* Company Profile
* 5 AI/GenAI Use Cases
* Relevant datasets like Kaggle Fashion Product Images, UCI Retail Data.

# Conclusions

* + Offline AI agents can create valuable outputs.
  + Structured prompts greatly affect result quality.
  + Local model usage saves costs and ensures privacy.
  + Modular architecture allows easy feature addition.