

# Multi-Agent AI Toolbox for Startup Idea Evaluation and Business Planning

## Bachelor's – Master's Thesis / Student Project

Large language models and multi-agent AI systems can support researchers and students in evaluating startup ideas, analyzing markets, developing business models, and preparing first business plans. An initial AI-based toolbox has already been developed using a chat-based interface and specialized AI agents. The aim of this thesis/project is to test, evaluate, and further improve the prototype for real university spin-off and startup cases.

### Your Tasks:

- Test the existing multi-agent AI toolbox with realistic startup ideas
- Identify limitations, errors, and improvement potential
- Improve selected components, such as prompts, frontend, RAG/document upload, or agent workflows
- Evaluate generated outputs, e.g., market analyses, business models, financial plans, and business plans

### Methods:

- Large Language Models and multi-agent systems
- LangChain / LangGraph, RAG, prompt engineering
- Python and Streamlit
- User testing and qualitative evaluation
- Startup and business model analysis

### Requirements:

- Interest in AI, startups, and technology transfer
- Basic Python programming skills
- Independent and structured way of working



### Start:

Immediately, or by arrangement

- The duration and focus will be adjusted to the requirements of each kind of thesis.
- We can arrange a personal conversation at any time and discuss this or other topics without obligation.

### Kontakt:

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