**MCIP CI4 meeting minutes - kickoff**

**Time:** 15:30-16:30, 4 March 2025

**Location:** IW4

**Items:**

* Project requirements:

Project CI4: Building a Programming AI Tutor

Description: The goal of this project is to deploy a chatbot that helps CS students to learn coding. The scope could range from learning basic Python, to help students with problem solving and algorithms, or to provide hints on improving existing code.

The project is experimental, you may explore different Large Language methods and explore resources to train and deploy the chatbot.

Potential resources to start the project are listed below:

• Hugging Face Transformers: Great for using and fine-tuning LLMs (https://huggingface.co/transformers).

• LangChain: Ideal for building conversational AI with specific coding knowledge (https://docs.langchain.com).

• OpenAI API or Google Gemini: Simple starting points to explore and fine-tune.

Skills Required: Programming skills, Large Language Models

Supervisor: Cruz Izu

* Discussion:
* Dr. Cruz Izu’s main idea: GenAI used to focus on performance, accuracy and correctness. But in programming education, hoping the GenAI will be student’s helper and instructor. Not just give students an answer directly.
* Dr. Cruz Izu will e-mail an academic paper about GenAI suing in programming education to the team members.
* Dr. Cruz Izu expects us to bring some study, insight or progress in the meeting.
* Action Items:
* Read the paper and do some research about GenAI in programming education.
* Providing our insight and research for the next meeting.