

Here are the details for your **Home Assignment**, which is due on **Friday, 29th November 2024**.

Group Size:

- You may work in groups of **1-4 persons**.

Scoring Criteria:

- **0 – Rejected**
- **1 – Poor:** Incomplete implementation and a report reflecting it.
- **2 – Fair**
- **3 – Good:** The work meets expectations, is satisfactory, and covers most key points effectively.
- **4 – Very Good**
- **5 – Excellent:** Demonstrates novel or surprising findings in methodology or results.

This assignment will contribute **35%** to your final course grade.

Assignment Overview:

Your task is to submit your **implementation**, and a **report** of an intelligent system based on one of the problems provided on the course homepage. There is also an option for a custom assignment, where you can propose your own problem — remember to get your plan approved before starting. Describe in as much detail as possible the custom assignment you wish to create. Write it as a document (in PDF format) and send it by email to the following contacts: Kuopio Campus: Matti Itkonen (matti.itkonen@uef.fi) Joensuu Campus: Xi Xuan (xi.xuan@uef.fi)

Implementation:

Use your preferred tools to implement the system. It is recommended to host it on a public server so that you can use it as a portfolio piece to showcase your skills.

Report Sections:

1. **Problem Description:** Demonstrate your understanding of the problem.
2. **Approach to Solution:** Describe the methodology used to solve the problem.
3. **Implementation:** Include the code or a reference to the implementation with readable and commented code.
4. **Discussion on Intelligence:** Explain why the system is intelligent. Provide evidence, such as learning curves, results showing differences between incomplete and sufficient learning, or prediction accuracy results.
5. **Quotations:** Explicitly specify any use of tools like **ChatGPT** or similar in code generation and reporting. Similarly, provide references to borrowed code and literature.

6. **Contributions:** Specify how each team member contributed to the implementation and reporting.
7. **(optional Reflections):** Conclusions, further work, ideas or something else.