

# Human-in-the-loop for Machine Learning/Data Analytics Workflows

## Second Presentation

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- 2 Human-Centered Design of Decision-Support Systems
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# Human In the Loop Machine Learning

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- Data Extraction, Data Integration, Data Cleaning, Data Annotation and Iterative labeling, Model training and inference.
- Although there are some common theme and techniques, the human in the loop solutions are tailored according to specific situations.
- → Need to understand the details of the problem needed to solve.

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## ① Iterative Human-Centered Design Processes.

# Human-Centered Design of Decision-Support Systems [1]

- 1 Iterative Human-Centered Design Processes.
- 2 Need Analysis → User, Context, Task identification and understanding → Identify problem → Propose solution → Repeat.

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# Next step

- Perform the Need Analysis → Interviewing Maarit's team to understand the problem or need.
- Identify and understand User, Context, Task.
- Then identify the problem and potential solution will come later.

# References I



P. Smith, N. Geddes, R. Beatty, and C. Hayes, *Human-Centered Design of Decision Support Systems*, 08 2020, pp. 589–620.