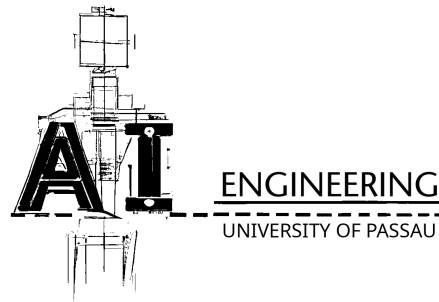


Principles of AI Engineering

Exercise 8

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Project task

Consider how unsafe input can be handled and how the user might be able to judge the safety of the output. Then create an initial safety box around your model:

- Check the language of the input and decide what should happen if a user inputs non-English text.
- Inform the user about the model's confidence during the label correction.

Questions

1. Given the project setting, describe the concept of a safety box.
2. Which other measures could be used for safety assurance in the application?
3. Describe the building blocks of fault tree analysis.
4. Describe minimal cut set analysis.
5. Describe failure probability analysis.