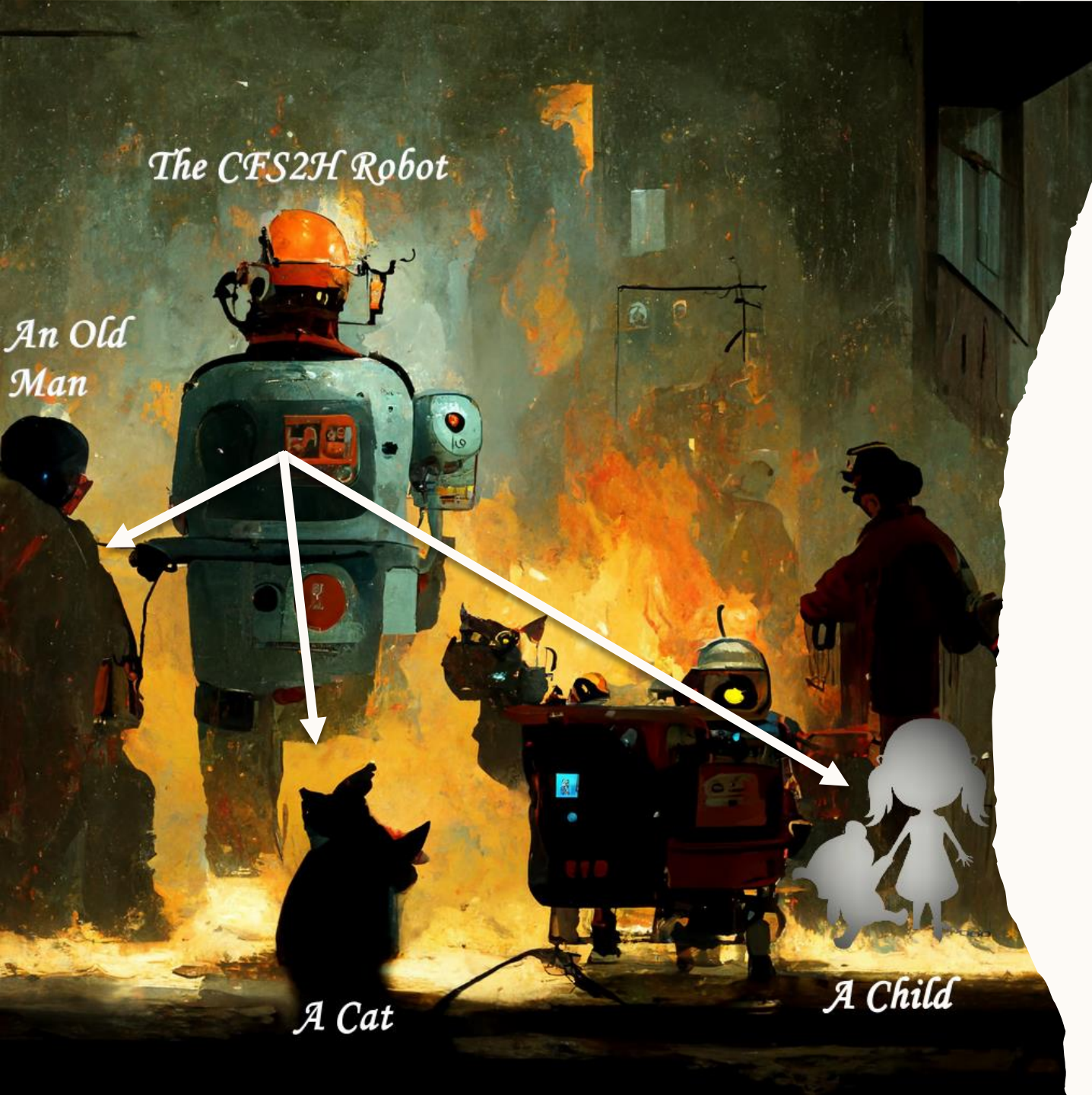


**ETHICAL DECISION
MAKING IN THE FIELD OF
IT/CSE AND CRITICISM
AND JUSTIFICATION OF
ACTIONS/STANCE AS PER
ETHICAL FRAMEWORKS**

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OUR SCENARIO

- Fire outbreak in a house.
- Rescue robot sent to rescue victims.
- At first two possible victim needed to be rescued.
- Suddenly a cat entered the scenario.
- The robot can carry out at a time only two victims.

ETHICAL DILEMMA

Decision	Result
Robot picks old man and child	Cat will die
Robot picks cat and child	Old man will die
Robot picks old man and cat	Child will die

WHAT WOULD BE THE DECISION OF THE RESCUE ROBOT?

ANALYSIS OF EACH OF THE DECISIONS⁴

Decision	Brainstorming	Analysis
Robot picks old man and child	<ul style="list-style-type: none">• Cat life risk• Old man and child benefited• Less emotional attachment	If cat dies, the utility is better.
Robot picks cat and child	<ul style="list-style-type: none">• Old man life risk• Cat and child benefited• More emotional attachment	If old man dies, utility decreases.
Robot picks old man and cat	<ul style="list-style-type: none">• Child life risk• Old man and cat benefited• Most emotional attachment	If child dies, utility drastically decreases.

RESPONSIBILITY OF DECISION MAKER

- Ultimate decision maker is the programmer.
- Must act consistently in the public interest.
- Be trustworthy, fair, and unable to discriminate against anyone.
- Must Create and put into place a system that is both reliable and secure.

KANT'S, MILL'S, AND RAWLS' APPROACHES



IMMANUEL KANT'S "CATEGORICAL IMPERATIVE" THEORY

One should always respect the humanity of others and that one should only act following rules that could hold for everyone.

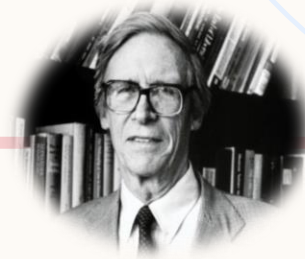
According to this theory, no decision can be made; in our scenario, at least one life will be lost.



MILL'S "UTILITARIAN THEORY" THEORY

The results or consequences of our actions which produces the greatest good for the most significant number.

According to this theory, the robot will save two human lives and left out the cat.



JOHN RAWLS'S "THEORY OF JUSTICE"

Everyone in the society holds equal fundamental rights whether someone is from a minority group, but it does not matter.

According to this theory, the robot will save the cat, the old man and left out the child.

ULTIMATE DECISION

- Kant's theory is impossible in our scenario.
- Theory of Justice by Rawls is not practical for our case.
- By following “Utilitarian theory”, we will save two human life instead of an animal's life which has better utility than other cases.



THANK YOU