



**My Project:**

# **Controlling Water Quality Using Artificial Intelligence**

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# Fuzzy Logic ?

Fuzzy logic is a form of multi-valued logic that allows truth values to range in real numbers between 0 and 1.

In artificial intelligence (AI) systems, fuzzy logic is used to mimic human reasoning and cognition. It is an extension of binary logic, which has only two truth values, 0 or 1. Fuzzy logic includes 0 and 1 as extreme truth values but also accommodates various intermediate levels of truth.

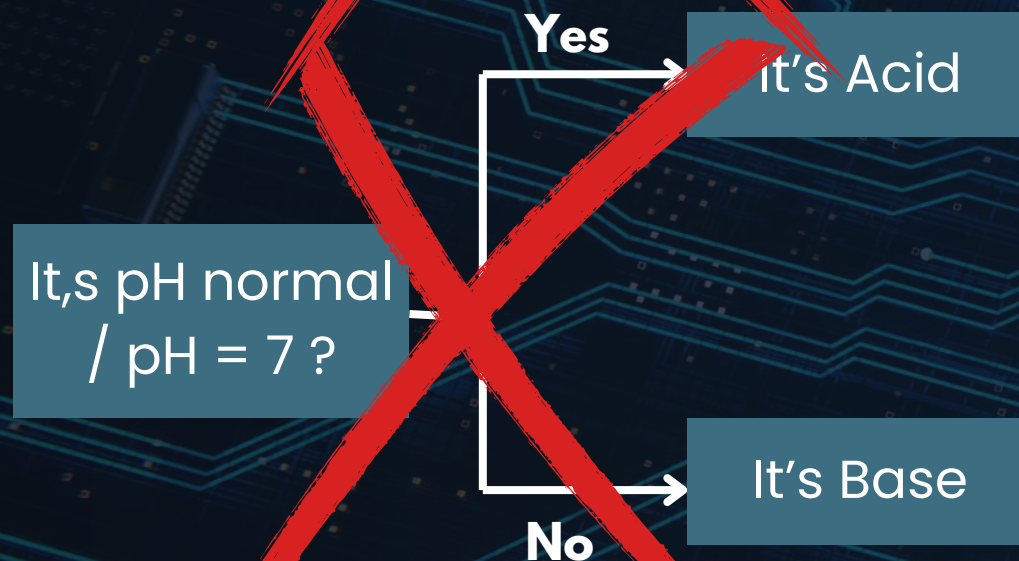
Fuzzy logic is developed based on human language (natural language). Its purpose is to bridge the gap between precise machine language and human language, which emphasizes meaning or significance. Fuzzy logic is commonly applied to problems involving uncertainty, imprecision, noise, and similar factors.

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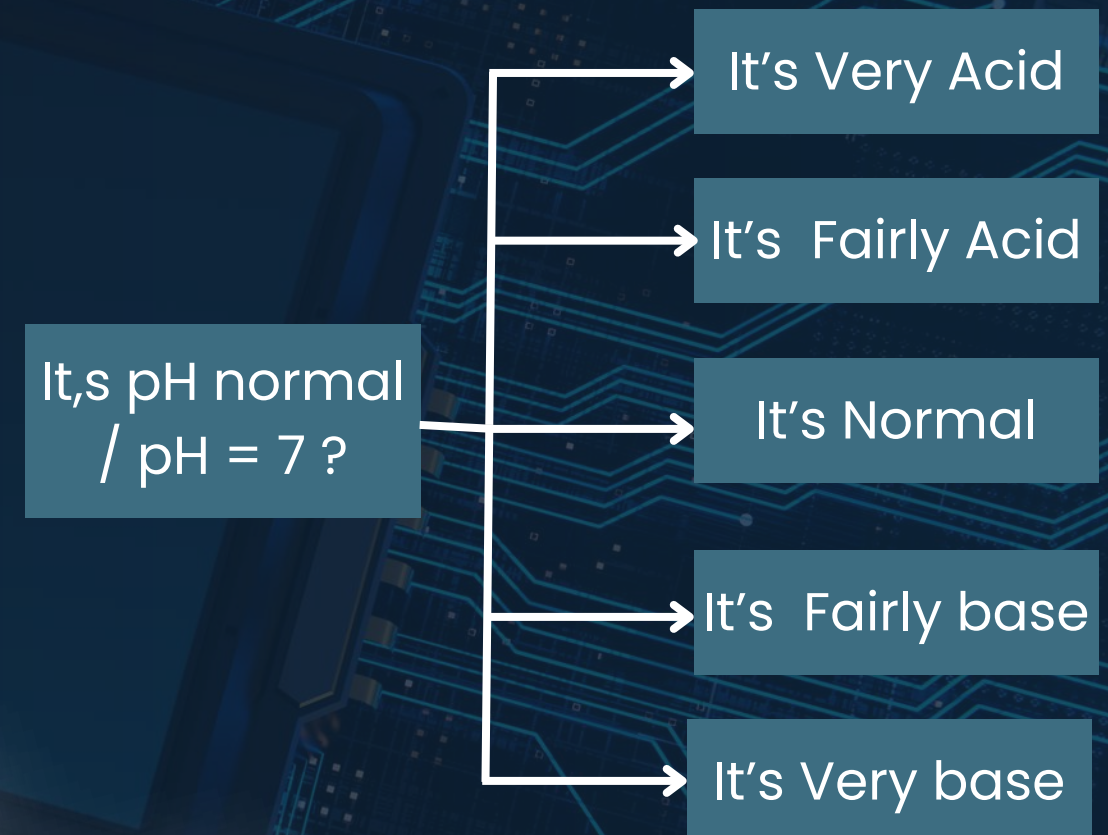




## Boolean Logic

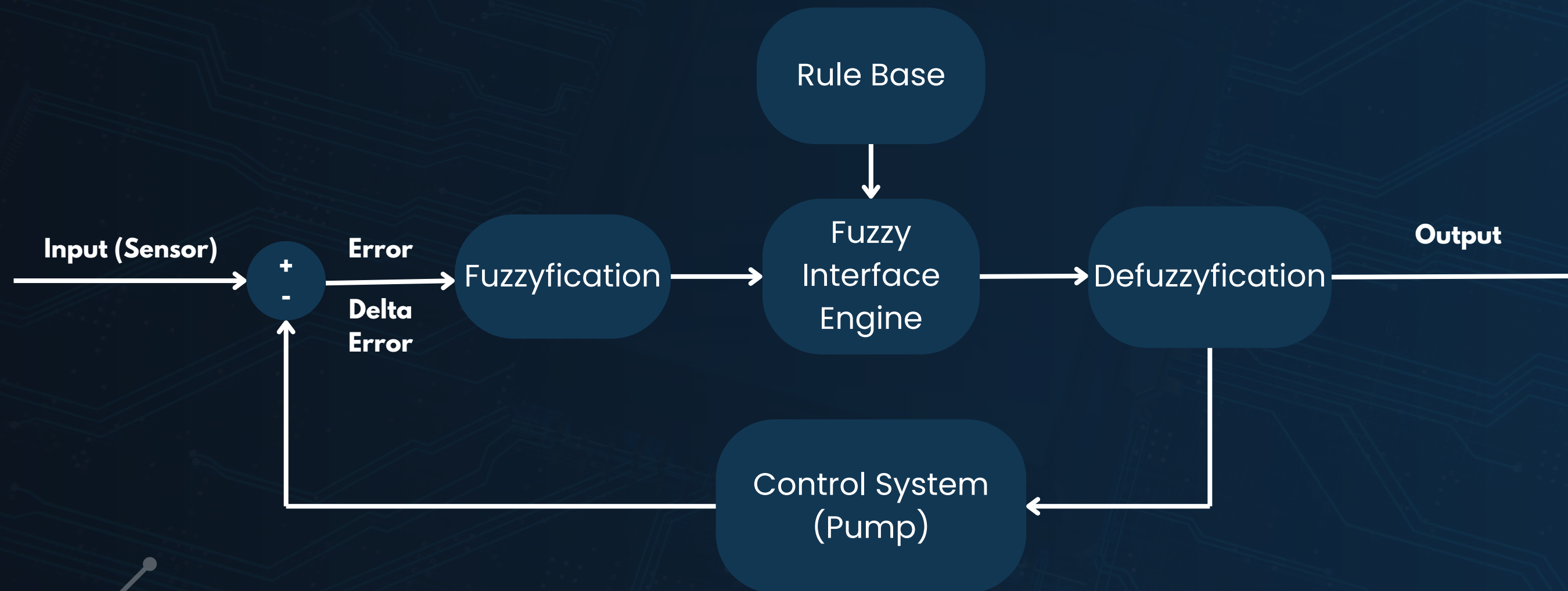


## Fuzzy Logic (AI)

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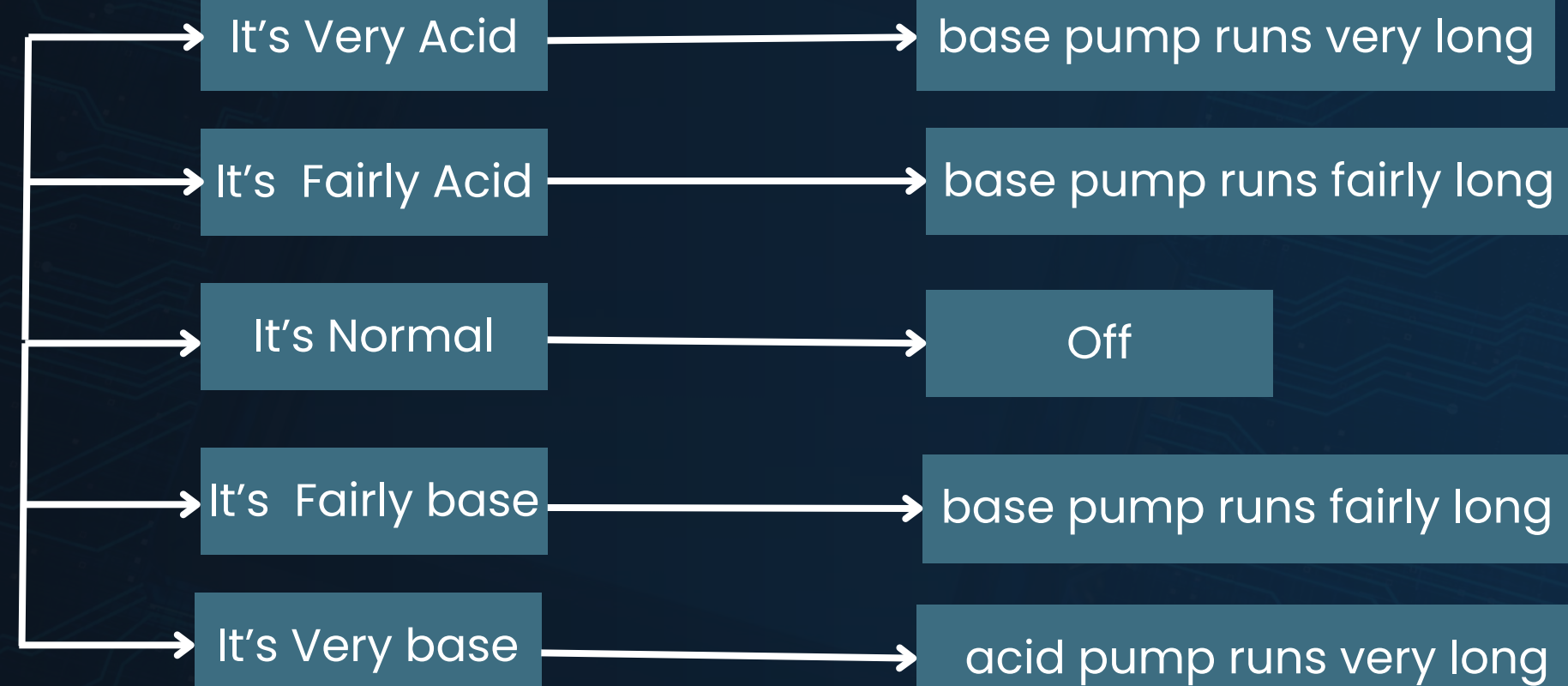
# Diagram Block







It,s pH normal  
?

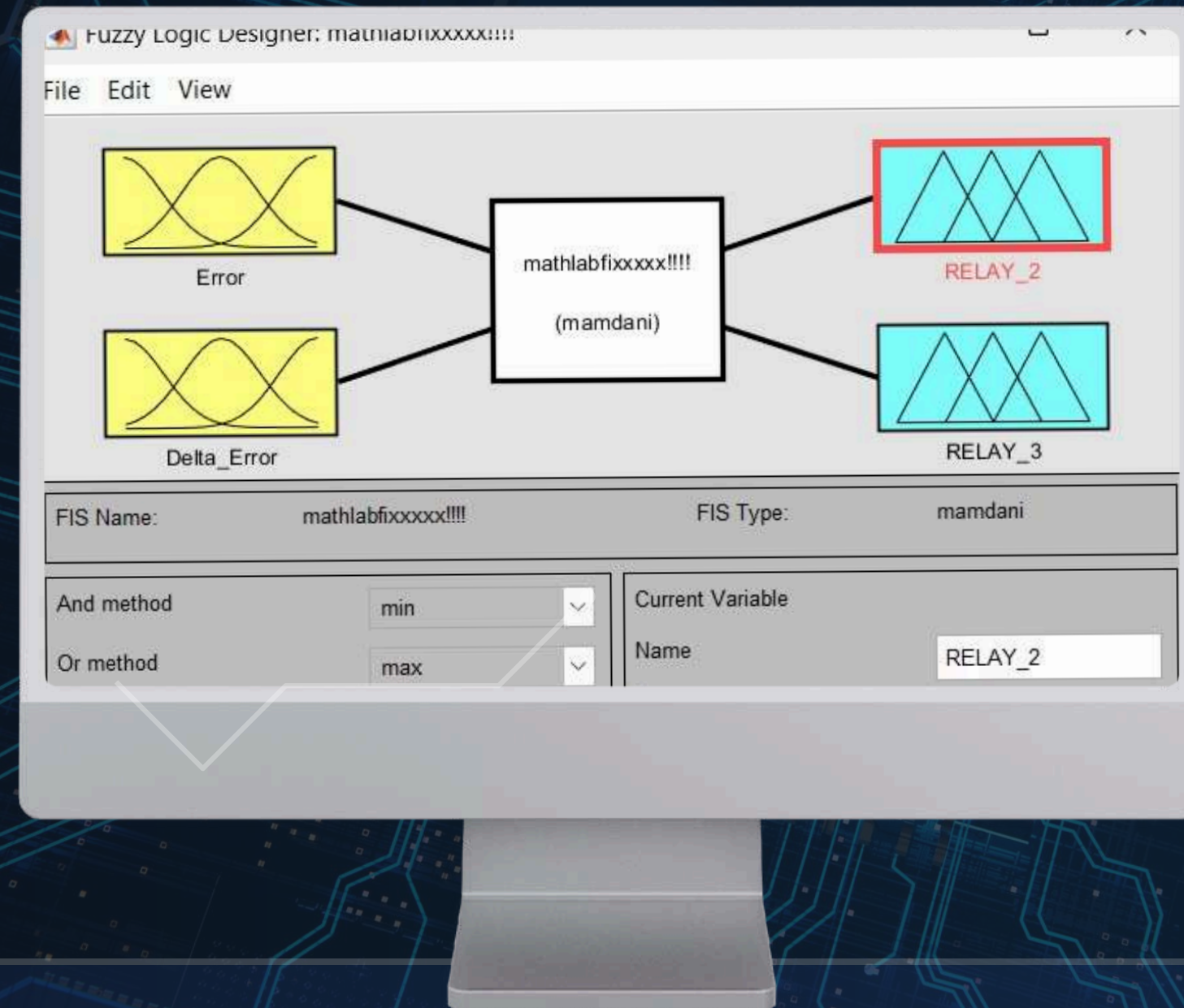


**Output**





# Matlab





# Schematic

