Chat with Files using Gemini

User Question: Deterministic nite automaton

Al Answer: A deterministic finite automaton (DFA) is a finite-state machine that can be used to recognize strings. It is defined as a 5-tuple (Q, ?, ?, q0, F), where:

Q is a finite set of states

? is a finite set of input symbols

?: Q \times ? ? Q is a transition function that takes a state and an input symbol as input and returns the next state

q0 ? Q is the start state

F? Q is the set of accepting states