

Analysis and Design of Advanced Algorithms

Group #607

Team 3

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INTEGRATED ACTIVITY - TRANSMISSION ANALYSIS AND MALICIOUS CODE DETECTION

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Building a Suffix Automaton from scratch helped me appreciate the power and flexibility of this structure for solving substring-related problems efficiently. Understanding how states, transitions, and suffix links interact required careful reasoning, and working through these details improved my precision as both a programmer and problem solver. It showed me how theoretical concepts such as automaton construction and state propagation provide real advantages in practical computational tasks.

Beyond the implementation, collaborating with the team taught me how shared insights accelerate debugging and refinement. Discussing alternative approaches and verifying correctness together made the process smoother and more reliable. The experience strengthened my confidence in handling advanced data structures and reinforced the importance of communication and teamwork in algorithmic development.