

Optimizing and Analyzing Traffic Data Using Data Mining Techniques

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Abstract: *This is the project titled Optimizing and Analyzing of Traffic Data using Data Mining techniques and under this project goals will be defined which may include enhancing network performance, reducing latency and strengthening security measures. Next, critical network components are identified, such as routers, switches and firewalls which require analysis and optimization. Network traffic data is collected using monitoring tools or packet sniffers, encompassing both inbound and outbound traffic. This data is then analyzed to identify patterns, trends and potential security threats. Network bottlenecks and performance issues are also identified. Based on the analysis, optimization techniques are implemented. This may involve reconfiguring network settings, adjusting routing protocols or upgrading hardware components. Simultaneously, security measures are implemented to address identified vulnerabilities. Performance improvements are continuously monitored and measured using metrics such as network latency, throughput and packet loss. The optimizations are fine-tuned periodically based on ongoing and new traffic patterns.*

Keywords: Analyzing of Traffic Data