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Abstract—Industry 4.0, also referred to as the Internet of Things (IoT), embodies the convergence of operational, internet, and information technologies, aiming to enhance automation efficiency while promoting environmentally friendly and adaptable processes, as well as innovative products and services. Adapting industrial network infrastructures to accommodate increased traffic from diverse technologies is essential for seamless integration. Successful implementation of advanced wireless technologies relies on delivering high-quality service (QoS) to end users. The analysis and prediction of network traffic find applications across various domains and have recently garnered considerable attention in research. Numerous experiments have been conducted and consolidated to identify existing challenges in computer network applications. Network traffic analysis and prediction serve as a proactive approach to ensure secure, reliable, and high-quality network communication. To better capture the traffic dynamics within a given period, increased sampling is necessary to represent it accurately. Utilizing three consecutive data points to depict the traffic status over a specific timeframe is proposed. The performance of integrated models was evaluated using a range of statistical metrics, including mean square error (MSE), root mean square error (RMSE), and standard error, showcasing the suggested technique's ability to yield highly accurate results.

Keywords— Packet sniffer, Wireshark, machine learning, traffic classification

I. INTRODUCTION

In the fast-evolving landscape of future 5G networks, the combination of rapid traffic growth and diverse service demands is anticipated to result in continuously shifting traffic conditions and high bandwidth requirements. Consequently, network re-dimensioning has become crucial in such dynamic environments. Internet providers must regularly reassess and upgrade their capacity strategies to foresee capacity limitations and prevent complications before user experience suffers. Intelligent capacity management techniques, facilitated by self-organizing network architecture, simplify network configurations. These techniques are commonly employed by telecom service providers to accurately estimate forthcoming traffic loads and forecast traffic variations. This enables timely updates to network configurations to ensure satisfactory user experience under changing conditions.

Capacity restrictions within radio access networks are identified by correlating traffic predictions with predefined limits, signaling potential resource shortages. Various replanning strategies are enacted based on the lead time for problem identification. Short-term predictions drive immediate changes in network configurations, such as adjusting audio coding methods or traffic dispatching algorithms to optimize system performance. Meanwhile, long-term estimations anticipate resource scarcity well in advance, enabling proactive strategies like bandwidth expansion and license continuation to accommodate future demands.

As real-time user mobility continues to grow globally, predicting cellular data patterns in urban areas becomes invaluable for assessing cell efficiency. Accurate traffic forecasting aids mobile operators in optimizing resource utilization and evaluating mobile network operators' capacity and connectivity.

The emergence of cloud servers as a critical network infrastructure introduces new challenges and opportunities. Predictive analytics applied to network traffic management can help alleviate communication pressures on cloud servers. By analyzing large volumes of network traffic data, efficient algorithms can be developed to improve network traffic scheduling, enhance security against malicious attacks, and ensure stable service provision on cloud servers.

Mobile internet usage has become deeply integrated into daily life, presenting both opportunities and challenges for network infrastructure. The rapid growth in network size and user demands necessitates proactive measures, such as traffic-change prediction and on-demand resource allocation, to optimize network operations and ensure seamless connectivity, particularly in densely populated areas and during large-scale events.

In conclusion, real-time and accurate network traffic prediction is essential for effective network management in the face of growing demands and evolving technologies. Various methodologies, including statistical analysis, machine learning, and time series modeling, are employed to forecast network traffic patterns, ensuring efficient resource utilization and network performance.

II. MATERIALS AND METHODS

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