Abstract—The number of devices linked to the network is increasing dramatically in the current day. The complexity of network administration is rising as more IoT devices tend to use the internet to access the world. In order to compete with the current network technologies, traditional networking will not be sufficient. To handle and analyse the data, it is vital to use big networks and data centers. Self-Driven Networks (SDN) and Software Defined Networks (SDN) play an important part in this, aiding in the problem-solving process and enhancing network performance through the use of ML approaches. The main aim of this paper is to create a unique architecture that seamlessly integrates latency, bandwidth forecasting, and QoE estimation into the applications. The overall classification of the traffic is done based on the data from the SDN controller, this classification is used in predicting the traffic in each network route and helps in finding the optimum routes.