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(57) Abstract :
The present invention discloses a computer model (100) for predicting internet bandwidth utilization with high accuracy and adaptability. The system comprises a data acquisition module (101), preprocessing module (102), feature extraction unit (103), predictive engine (104), feedback mechanism (105), anomaly detection module (106), and output interface (107). By integrating real-time traffic data with intelligent predictive algorithms, the invention ensures proactive bandwidth allocation, improved quality of service, and reduced congestion. The modular and scalable design enables deployment across ISPs, enterprises, cloud systems, and IoT platforms.

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