



Bridging the gap between experienced and measured broadband quality

Motivation

**What is the first thing you do
when internet connectivity
degrades?**

Motivation (cont'd)

The screenshot shows the Speedtest website interface. At the top left is the "SPEEDTEST" logo. The top right navigation bar includes "English", "Apps", "Learn", "Data", "About", and user icons. The main content area is filled with advertisements: a green ad for "50% off support for when that link you clicked is feeling fishy" with a "SHOP NOW" button; a red ad for "fiverr. Web Development? Get a load of this." with a "Find a freelancer" button; a green ad for "Webroot Essentials ranks #1 against Norton, McAfee and others." with a "SHOP NOW" button; and a blue ad for "NHL TNT" and "HBO max" with a "SIGN UP NOW" button. In the center, there is a large blue circle with the word "GO" inside. Below this, the test results show "Spectrum" with IP "24.94.31.148" and "Spectrum" in "Los Angeles, CA" with a "Change Server" link. At the bottom, there are "Connections" options for "Multi" and "Single".

Motivation (cont'd)

SPEEDTEST English Apps Learn Data About

CareCredit **CARE CREDIT** LEARN MORE

SHARE 02/26/2026 5:18 PM RESULTS SETTINGS

DOWNLOAD Mbps **277.19** UPLOAD Mbps **9.42**

Ping ms 23 309 37

Spectrum **GO** Spectrum Los Angeles, CA

Clorox Disinfecting Cleaning Wipes... ★★★★★ 116,245 \$12.78 ~~\$14.99~~ prime **Add to cart**

Flexible Financing on Health and Wellness Costs* **CARE CREDIT** LEARN MORE

AdChoices

Create an Account Results History

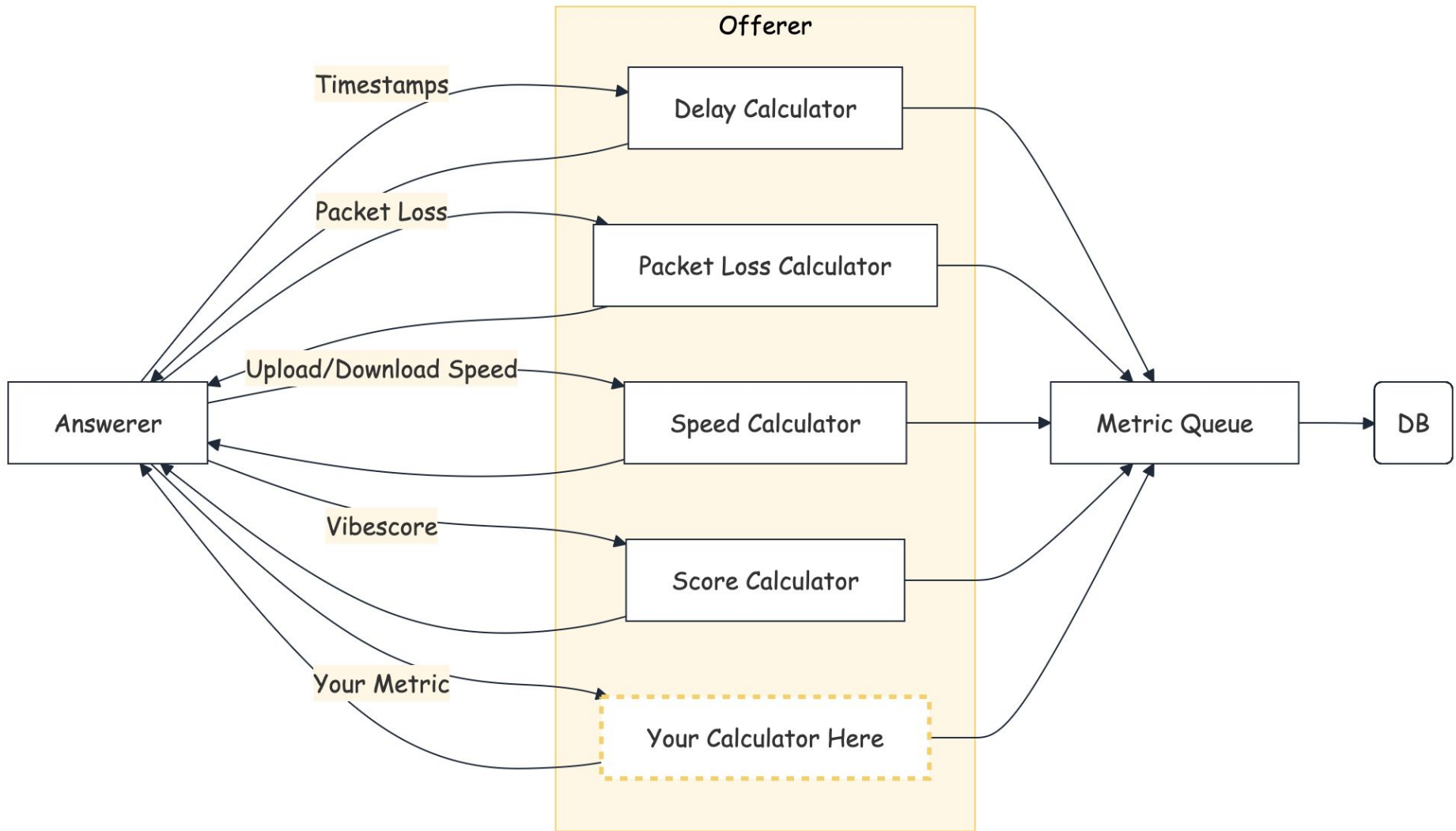
Motivation (cont'd)

**Model network performance by
Experience not raw metrics**

Goals

- Capture real-time, continuous network behavior, unlike speed tests
- Make performance degradations understandable for the average internet user
- Support research, dataset creation, and policy, and product improvements

System Overview

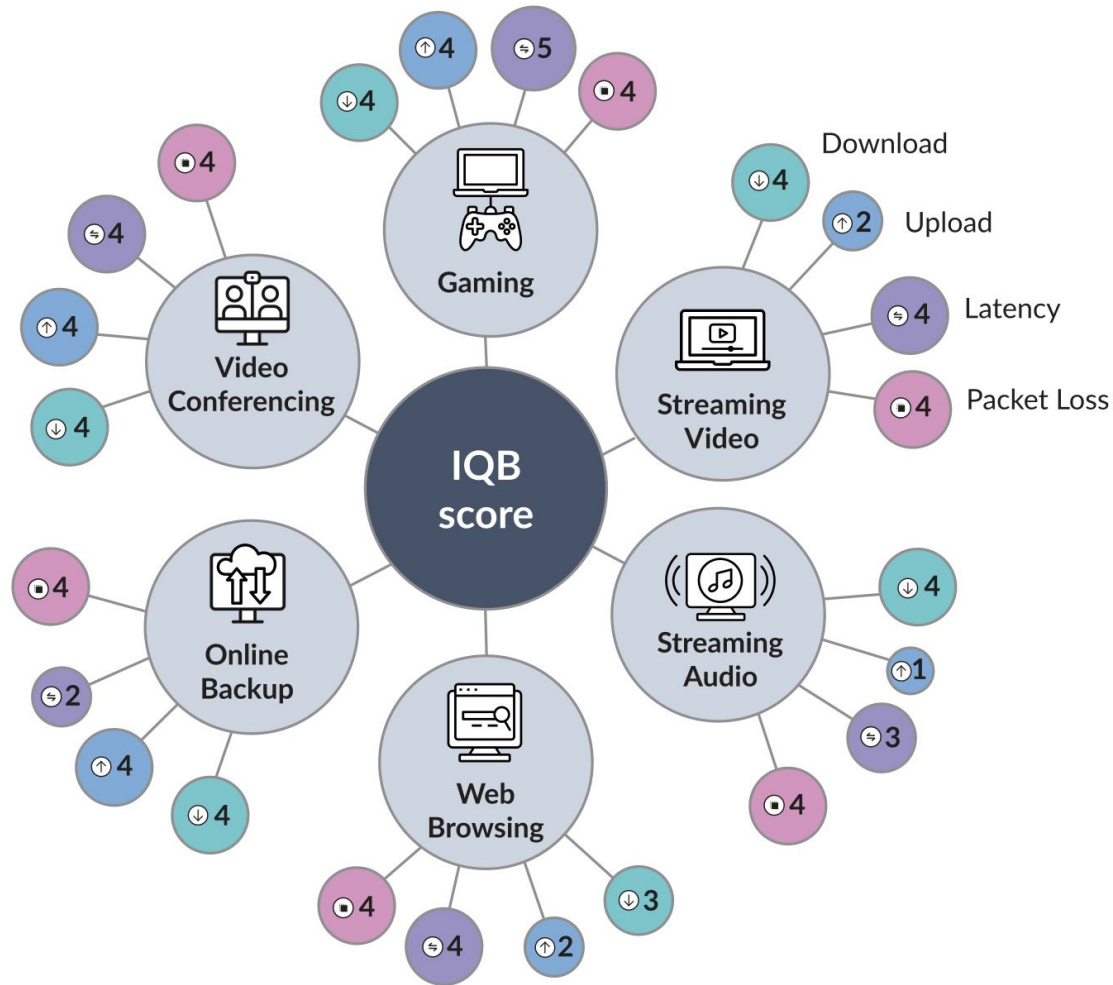


Raw Metrics

- One Way Delay and RTT
- Upload and Download Speed
- Packet Loss

We will add more in the future

MLab IQB Scores



This figure illustrates how network requirements contribute to use cases, and how the use cases contribute to the IQB score.

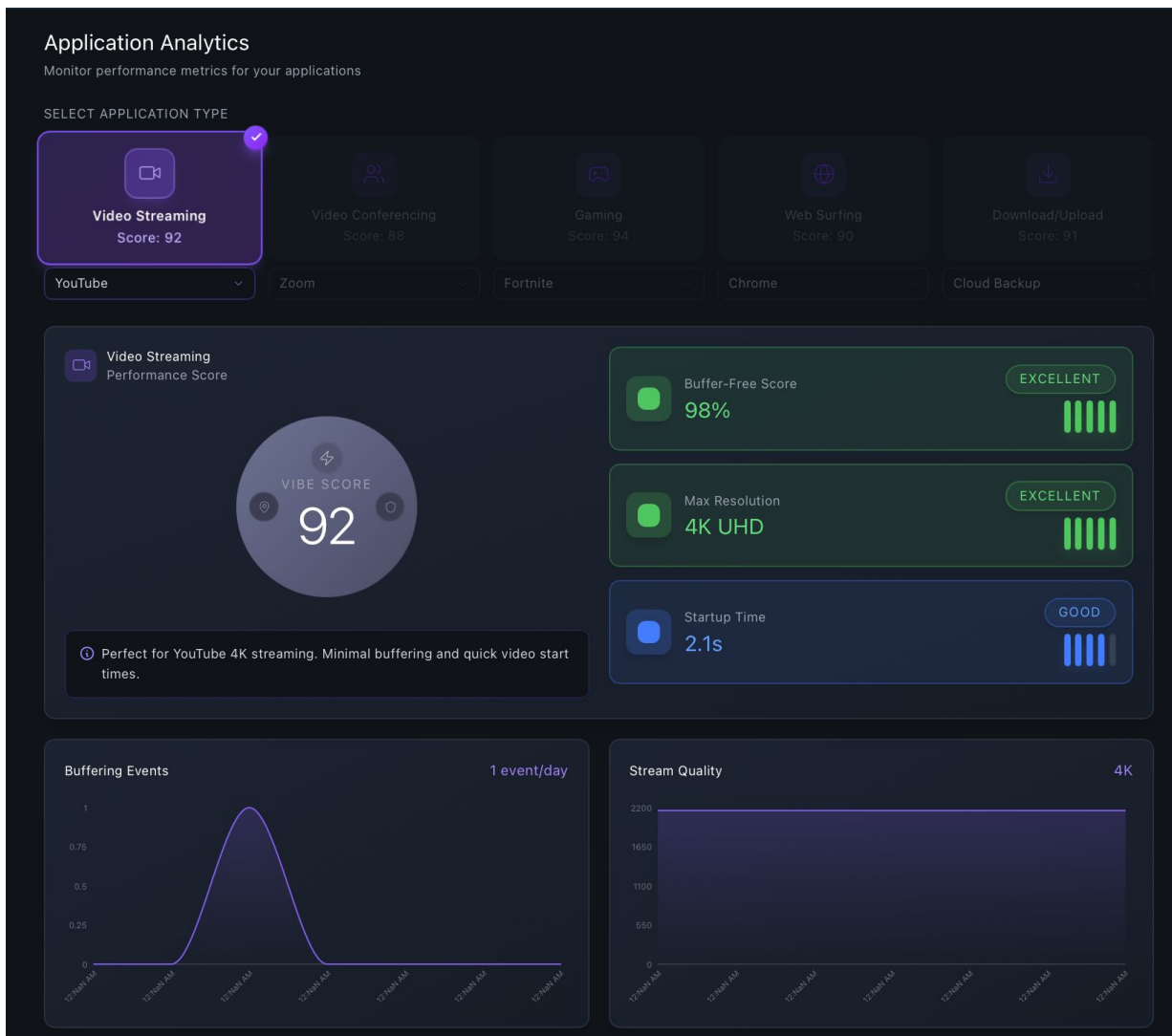
Netvibe!

The screenshot displays the Netvibe dashboard interface. At the top, the 'NetVibe' logo is on the left, and navigation controls for 'MBP', '5 minutes', and 'Active' status are on the right. A sidebar on the left contains menu items: Overview, Analytics (marked 'SOON'), Diagnostics, Devices, and Settings. The main 'Overview' section features a large central circular gauge labeled 'VIBE SCORE' with a value of '100'. Below the gauge, it indicates 'Excellent 1 minutes' and lists the location: 'University of California - Office of the President' with IP '169.231.117.3' and 'Santa Barbara, California'. At the bottom of this section, three boxes show 'LATENCY 20.8 ms', 'PING 38.5 ms', and 'JITTER 2.3 ms'. On the right side, four summary cards are stacked: 'Reliability 100 /100', 'Speed 100 /100', 'Responsiveness 100 /100', and 'Active Devices 1 devices'.

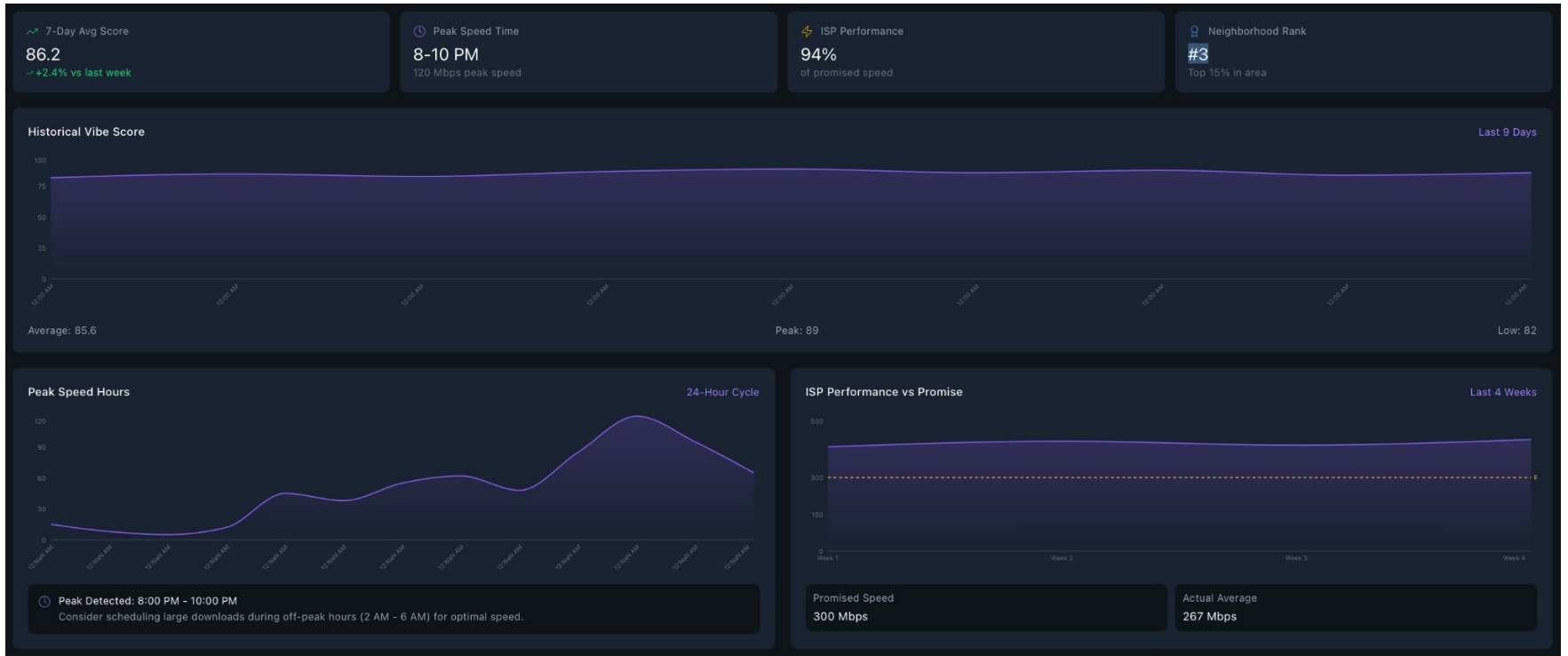
Netvibe?

OK. What's next?

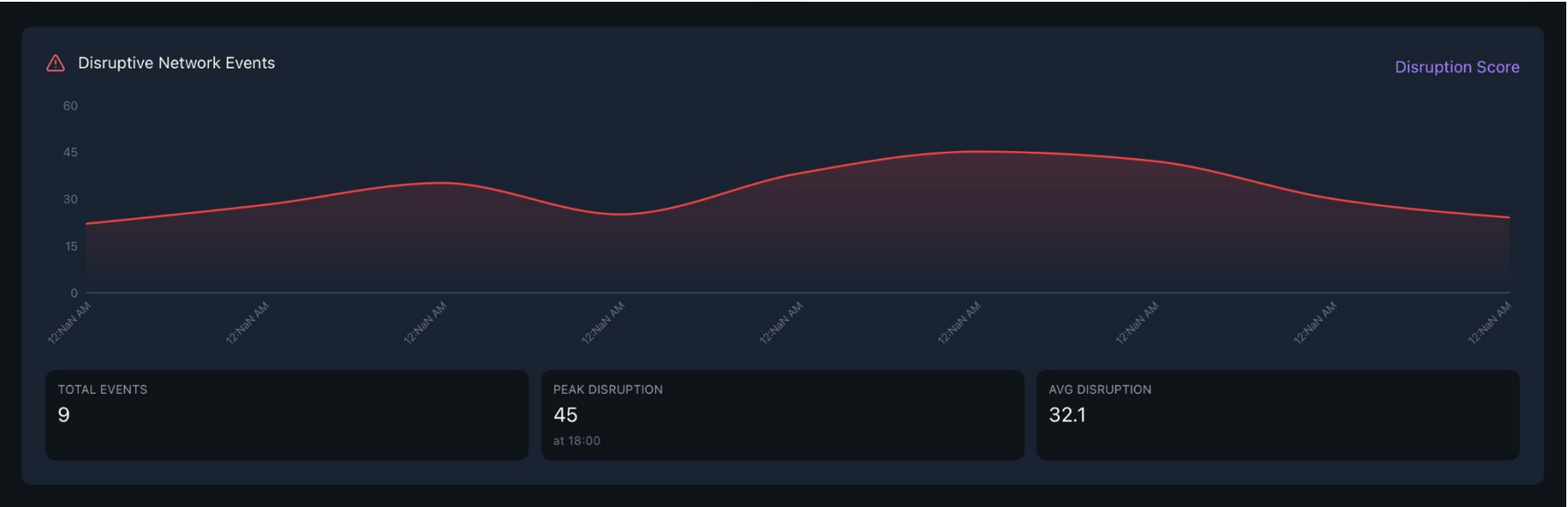
Next Steps: NetReplica & NetGent



Next Steps: TurboTest & BQT+



Next Steps: NetBurst



Next Steps: Agents

The screenshot shows a chat interface for the NetVibe AI Agent. At the top left, there is a purple circular icon with a white starburst, followed by the text "NetVibe AI Agent" and the subtitle "Ask me anything about your network performance". Below this, a message from the agent is displayed in a dark grey bubble with a purple circular icon containing a white robot head. The message reads: "Hello! I'm your NetVibe AI assistant. I can help you understand your network performance, troubleshoot issues, and provide recommendations. What would you like to know?" and is timestamped "10:51 AM". Underneath the message, there is a section titled "Suggested questions:" followed by five buttons: "What's my current Vibe Score?", "How does my network compare to neighbors?", "When are peak usage hours?", "Is my network good for gaming?", and "How can I improve my network performance?". At the bottom of the interface, there is a text input field with the placeholder text "Ask about your network performance..." and a "Send" button with a white paper plane icon.

Try Netvibe

[Netvibe.ai](https://netvibe.ai)