





**Dapp:** <https://dapp.lumoratoken.ai/>

**Main Page:** <https://lumoratoken.ai/>





# 1. Abstract

Lumora is a decentralized network that allows individuals to earn \$LMR tokens by sharing their unused internet bandwidth. The network democratizes data access by bypassing restrictive API policies and enabling open data scraping for AI training. Lumora achieves this while maintaining user privacy through advanced encryption and decentralized architecture. The project is a step toward building a fairer internet and revolutionizing how data is accessed and used for AI development.





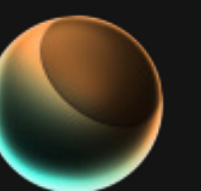
## 2. Introduction

### The Problem

In the current internet landscape, accessing large datasets is increasingly restricted by API limitations. Platforms like Reddit and Twitter impose rate limits or exorbitant fees, making their data inaccessible for small developers and researchers. These restrictions hinder the democratization of AI, as only large corporations can afford to pay for the necessary data, locking out smaller players and innovation.

### The Solution

Lumora leverages a decentralized network of users who share their unused bandwidth in exchange for tokens. This network facilitates unrestricted access to publicly available data, breaking down barriers created by centralized platforms. Lumora not only empowers users with passive income but also drives AI innovation by providing developers and researchers with the resources they need to train models.





# 3. Network Architecture

The Lumora network is designed to leverage user-contributed bandwidth through a decentralized infrastructure. The core components of the system are as follows:

## Bandwidth Providers (Users)

Lumora users install a **Chrome extension** that allows their devices to contribute unused internet bandwidth to the network. This extension acts as the primary interface for managing participation and data scraping tasks. Users can easily enable or disable scraping and set limits on bandwidth usage directly from the extension.

Bandwidth providers are rewarded with SOLANA-based tokens proportional to their contribution, offering a seamless way to earn crypto while supporting the network.





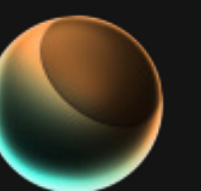
# Lumora Chrome Extension

The Chrome extension is the gateway for users to interact with the Lumora Network. It performs several key functions:

**Data Scraping:** The extension coordinates decentralized web scraping tasks, focusing on open data sources such as Wikipedia and similar publicly accessible platforms.

**Privacy Management:** The extension ensures that only public data is accessed, with no private or sensitive information being exposed.

**Performance Optimization:** Tasks are distributed intelligently to minimize impact on the user's device and bandwidth usage.





# Decentralized Dashboard (DApp)

Users can manage their participation and monitor their rewards via the Lumora **DApp dashboard**. Accessible from any browser, the dashboard provides:

**Bandwidth Controls:** Users can set limits on how much bandwidth they share.

**Task Management:** The dashboard displays active scraping tasks and allows users to pause or prioritize specific types of scraping.

**Reward Tracking:** Users can view real-time token earnings and manage payouts to their SOLANA wallets.

**Transparency:** A log of scraping activities ensures users have full visibility into how their bandwidth is being utilized.

The DApp integrates directly with the blockchain, ensuring transparency and security for all transactions and activities. The system automatically distributes \$LMR rewards every 24 hours, allowing users to receive consistent payments without manual intervention.





## 4. Prototype Functionality

For the initial prototype, the network focuses exclusively on scraping **open-access data sources**, such as Wikipedia and publicly available pages. This ensures compliance with data access regulations and allows the network to refine its performance before expanding to more complex tasks like parsing social media platforms.

AI developers and researchers access the data scraped by Lumora through the network. In future these consumers will pay for the data using Lumora tokens or SOL, creating demand for the bandwidth provided by users. Initially, the focus is on open-access data, but the network's roadmap includes expanding to broader and more diverse datasets.





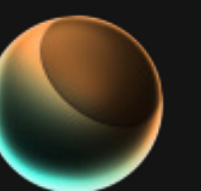
## 5. Privacy and Security

The Lumora network is designed with privacy at its core.

**Scraping Scope:** Only public and open-access data is scraped. The Chrome extension strictly prevents access to private or sensitive information.

**Encryption:** All data flows within the network are encrypted to protect user contributions.

**User Control:** The DApp dashboard empowers users with full control over their participation, ensuring transparency and security at every step.





## 6. Key Advantages of the Architecture

**User-Friendly Participation:** The Chrome extension simplifies onboarding, allowing anyone to contribute bandwidth and earn tokens without technical expertise.

**Transparency and Control:** The DApp dashboard gives users full control over their resources, fostering trust and participation. • Scalable Design: Decentralized scraping ensures the system can scale efficiently as more users join the network.

**Prototype-First Approach:** By starting with open data sources, the network ensures compliance and builds a solid foundation for future expansion.





# Roadmap

## Short-Term Goals

- Launch decentralized scraping for open-access platforms like Wikipedia.
- Develop a user-friendly app for bandwidth sharing.

## Medium-Term Goals

- Expand scraping capabilities to include social media platforms.
- Integrate with AI companies to sell aggregated data.

## Long-Term Goals

- Enable parsing across the entire internet.
- Establish Lumora as a leading decentralized data provider for AI system.





# 8. Market Potential

## AI Market Growth

The global AI market is projected to reach \$1.5 trillion by 2030, driven by the increasing demand for large-scale data to train models. Lumora positions itself as a key enabler by providing decentralized and unrestricted access to the data required for AI innovation.

## Decentralization Trend

With the rise of blockchain and decentralized applications, Lumora aligns with the growing demand for fair and equitable internet solutions.





# 9. Competitive Analysis

## Traditional APIs vs. Lumora

**Traditional APIs:** Expensive, limited access, and controlled by centralized platforms.

**Lumora:** Decentralized, fair, and accessible to all developers, regardless of size or resources.

