AQYLON

NEXUS



Aqylon Nexus Limited

LLM Router – Unified API

Build once. Connect to all.

KEY CAPABILITIES

Unified API
One interface connects to all major LLM providers

Seamless Interoperability
Switch models without refactoring codebase

Optimized Costs
Intelligent token management & dynamic provider selection

Real-Time Analytics
Monitor usage, latency, costs from centralized dashboard

Enterprise Security
API key management, rate limiting, audit logs

Developer-Friendly
Comprehensive SDKs, integration in hours not weeks

INDUSTRY DIFFERENTIATORS

All Major Providers

- OpenAI (GPT-4, GPT-3.5, DALL-E)
- Anthropic (Claude family)
- Google (Gemini Pro, Gemini Ultra)
- Cohere (Command, Embed)
- Meta (Llama 2, Llama 3)
- Mistral AI (Large, Medium)
- Hugging Face & Open Source
- Azure OpenAI Enterprise

AI Use Cases

Chatbots & Virtual Assistants

Content Generation

Code Generation

Data Analysis

Translation Services

Enterprise Applications

BENEFITS AT A GLANCE

Zero Lock-In
Multi-provider flexibility

Rapid Integration
Hours, not weeks

Cost Control
Efficient AI spend

Aqylon Nexus Limited

AI & Green Data Centre Campus

MoU with Government of Telangana

50 MW
Power Capacity

₹4,000 Cr
Investment

Fab City, Telangana
Location

Green Energy
Sustainability

INFRASTRUCTURE CAPABILITIES

Hyperscale AI Support
Purpose-built infrastructure for AI/ML workloads

20-Acre Campus
Strategic location at Fab City semiconductor hub

Scalable Architecture
Designed to grow with enterprise demands

State Partnership
MoU with Government of Telangana

INDUSTRY DIFFERENTIATORS

Green Data Centre Focus
Unlike traditional data centres, built with sustainability-first approach for reduced carbon footprint

AI-Native Infrastructure
Purpose-built for AI/ML workloads vs. retrofitted general-purpose facilities

Strategic Location
Fab City ecosystem provides semiconductor manufacturing synergies unavailable elsewhere

Government-Backed
State MoU ensures policy support, land allocation, and infrastructure connectivity

Strategic Investment by Global Funds
Multi-phase development creating 1000+ jobs in Telangana's tech ecosystem

₹4,000 Cr
Total Investment

Aqylon Nexus Limited

AI Code – Build, Run, Deploy

Software Without the Friction

PLATFORM CAPABILITIES

Instant Project Setup
Production-ready React server auto-created, zero config

Web Container Execution
Secure, Isolated runtime- no local installs needed

AI-Accelerated Development
Generate logic via natural language, auto-refactor code

Managed Databases
Provisioned & scaled automatically, no manual setup

Built-In CI/CD Pipeline
Automated builds & deployments, consistent releases

Enterprise-Ready
Isolated environments, access control, audit trails

INDUSTRY DIFFERENTIATORS

No Setup Overhead
Traditional dev requires manual environment, runtime, DB provisioning, CI/CD creation.
AI Code removes all bottlenecks.

AI That Actively Accelerates
Identify bugs early, improve code automatically, maintain quailty as projects scale.

Modern Delivery Practices
Developers upskill on modern frameworks and patterns through real projects, not separate training.

Who It's For

- Engineering teams tired of setup
- Enterprises modernizing workflows
- Global Capability Centers (GCCs)
- Teams wanting flexibility over subscriptions

SIMPLE, HONEST PRICING

✔ 100% Prepaid - No Subscriptions
✔ No monthly or annual contracts
✔ No hidden fees or vendor lock-in
✔ Full cost control

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Agry.ai – Smart Farm Management

The Intelligence Layer for Modern Agriculture

PLATFORM CAPABILITIES

IoT Sensor Network
Soil moisture, temperature, pH, nutrient levels captured in real-time

Satellite Imagery
Large-scale crop health visibility & field variability analysis

Weather Intelligence
Hyper-local forecasts & historical climate patterns

Pest & Disease Detection
AI detects subtle stress indicators invisible to human eye

Smart Irrigation
Data-driven scheduling, prevent overwatering & water stress

Yield Prediction
Predictive algorithms forecast outcomes with high accuracy

INDUSTRY DIFFERENTIATORS

From Reactive to Predictive
Unlike traditional farming relying on intuition, Agry.ai enables precision-based, proactive decision making

Field-Level Micro-Zones
Breaks large farms into zones- no two areas treated the same, optimizing per-zone efficiency

Early Intervention
Targeted pest/disease treatment vs. blanket spraying -reduces chemical usage & environmental impact

Challenges Solved
- Unpredictable weather patterns
- Water scarcity & rising costs
- Late pest/disease detection
- Soil degradation & nutrient imbalance
- Inefficient input usage & waste

BUSINESS OUTCOMES

Higher Yields
Via precision interventions

Lower Costs
Optimized resource usage

Sustainability
Reduced environmental impact

Aqylon Nexus Limited

Always-On Data. Anywhere. Instantly.

Redefining Critical Connectivity with Private Space Networks

LEO-BASED PRIVATE DATA NETWORK

30ms	99.999%	Global	On-Board
LATENCY	UPTIME	COVERAGE	PROCESSING

Aqylon™ builds a LEO satellite-based private data network engineered for mission-critical, low-latency, ultra-reliable transactions. Purpose-built for industries where connectivity failure is not an option.

WHAT WE ENABLE

Digital Payments
Zero-failure transactions

Transportation
Connected vehicles & FASTag

Utilities & infra
Uninterrupted IoT monitoring

Emergency Comms
Networks that never fail

Mass IoT
Billions of devices at scale

Defense & Security
Sovereign resilient networks

WHY AQYLON IS DIFFERENT

Single-Hop from Space

Lowest Cost (~1/100th existing NTN)

Built for Transactions, Not Streaming

Designed & Built In-House

India-First, Globally Scalable

Veteran Satellite & Space Team

TECHNOLOGY HIGHLIGHTS

- Proprietary LEO constellation architecture
- On-satellite edge computing
- Direct-to-device connectivity
- End-to-end encryption (AES-256)
- Inter-satellite mesh routing
- Network iSwitch and iRouter in space!
- Device to Device single hop!

PARTNERS & COLLABORATORS **ISRO** **IN-SPACE** **DOT** **BSNL**

"A 3D Private Space Network powering digital infrastructure-secure, resilient, affordable, and always available."

Aqylon Nexus Limited | Private Space Networks for a Transaction-Driven World

Aqylon Nexus Limited
NexusEdge AI SoC & Smart Farm Sensing Platform

Edge AI Compute Full-Stack Agri Sensor Network for Climate-Smart Farming

3 AI SoCs
NexusEdge-L|S|A

End-to-End Stack
Chips, SDK, Dev Kits

Custom ASIC
Spec to Tape-Out

Global Agri Market
Precision Farming

Down to 7nm
Advanced Nodes

NEXUSEDGE AI-SOC FAMILY

NexusEdge-L Edge AI Compute
Low-power AI SoC for LoRa/Industrial in-field gateways; always-on analytics.

NexusEdge-S Space-Grade AI
Radiation-hardened with TMR, ECC, latch-up immunity for harsh environments.

NexusEdge-A Automotive/ADAS
ISO 26262 ASIL-D compliant, AEC-Q100 qualified for autonomous machinery.

Unified SDK & Tools
Compilers, debuggers, runtime libraries, and optimization toolchains.

Dev Kits & Documentation
Evaluation boards, API references, datasheets, and compliance docs.

SMART FARM SENSOR NETWORK

Weather Station Suite
Temp, humidity, rainfall, wind, solar radiation for micro-climate insights.

Soil Intelligence
Moisture, pH, EC/salinity, nutrient-ion sensors for root-zone decisions.

Crop & Plant Health
Multispectral sensing for early stress detection and yield forecasting.

Location & Machinery
GPS, IMU, yield-flow sensors linking inputs to outcomes per zone.

Environmental Quality
CO_2, gas, air-quality sensors for emissions tracking and compliance.

SEMICONDUCTOR DESIGN SERVICES

Architecture & Specification
System architecture, performance modeling, power analysis.

IP Integration
Third-party IP: processors, memory, interface controllers.

RTL Design & Verification
Verilog/SystemVerilog with comprehensive UVM methodology.

Software Development
SDK, compiler toolchains, runtime libraries, examples.

Physical Implementation
Synthesis, P&R, timing closure, DFT for advanced nodes.

Qualification & Testing
Functional, environmental, reliability testing to standards.

WHY NEXUSEDGE IS DIFFERENT

AI-Native, Not Retrofitted
Chips, SDK, and sensors designed together for real-time field decision support.

Space-to-Soil Continuum
Space-grade NexusEdge-S plus ground sensors for vertically integrated visibility.

Edge-First Sustainability
On-device AI reduces data backhaul, power use, and latency across farms.

Full Custom ASIC Capability
End-to-end design from specification to tape-out, down to 7nm process nodes.

CUSTOM ASIC DESIGN PARTNER

Full-service ASIC design from specification to tape-out. Architecture definition, RTL design, verification, physical implementation, and qualification testing. Specialized in radiation-hardened designs for space (TMR, ECC, latch-up immunity) and automotive-grade ISO 26262 ASIL-D compliant solutions.

CONTACT US

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