Increased mission time with expanded scope and impact

Ultra-efficient edge models optimized for memory, power, and size

Move the model to the data, not the data to the model with low power AI/ML processing

Scalable, repeatable, and reliable secure model deployment

Faster data to decision with increased tactical advantages

Contact mlops@latentai.com to schedule your evaluation today!
Latent AI Efficient Inference Platform (LEIP)
On-prem SDK for optimizing edge models, with seamless integration into IL2-6/JADC2

<table>
<thead>
<tr>
<th>LAND</th>
<th>SEA</th>
<th>SPACE</th>
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<tr>
<td><strong>Same Hardware, Better Results</strong></td>
<td><strong>Rapid Model Prototyping</strong></td>
<td><strong>Extend Missions &amp; Impact</strong></td>
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<tr>
<td>- Increase edge inference by 66% and cloud inference by 48%</td>
<td>- Effortlessly target different hardware (CPU, GPU, etc.) without manual porting</td>
<td>- Lower power consumption on SWaP constrained hardware (2-6x speedups)</td>
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<td>- 4x the capability on the same device</td>
<td>- Build and run models without re-learning new tools</td>
<td>- Maximize limited bandwidth pipes and latency issues</td>
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**Example Missions**:
- Base defense and perimeter security
- Hazardous material detection
- Exfiltration route monitoring
- Safe-house surveillance
- Optimized models for limited upload bandwidth and line of sight communication restrictions
- Lower power consumption to extend battery life and mission
- Enable faster data to decision in complex environments
- Change-only model updates for uplink/downlink
- Provide better data faster

**Secure**
- Build in security like watermarks and encryption
- Adapt and react to changing conditions

**Example Missions**:
- Undersea inspection
- Mine detection
- Threat analysis and elimination
- Harbor surveillance
- Oceanographic analysis
- Identifying anti-collision maneuvers
- Missile launch detection
- Target identification
- Space debris tracking
- Onboard data collection and processing

**LAND**
- Reduce false positives/negatives with AI/ML intelligence
- Provide feedback in contested environments
- Increase situational awareness with always-on sensors
- Upgrade models with new detection signatures

**Example Missions**:
- Fast processing to detect swarm/drones using multimodal sensor
- Extended flight time and power supply
- Faster detection and response of threats
- Better target acquisition and recognition

**SEA**
- Update UUVs 18x faster while underway
- Support data fusing of onboard processing once re-connected
- Cover more area of responsibility with extended mission time and range
- Identify maritime threats faster and more precisely

**AIR**
- Counter drone
- Predator and loitering mode
- Threat elimination
- Reconnaissance and surveillance
- Identifying anti-collision maneuvers
- Missile launch detection
- Target identification
- Space debris tracking
- Onboard data collection and processing

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For more information, visit latentai.com