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AgroTech Expertise

AI-Driven Solutions for Industry, Logistics and Agriculture

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S-Consulting delivers end-to-end AI/ML and Computer Vision solutions for industrial safety, logistics, smart agriculture, retail, and Smart City initiatives.
We build high-accuracy video analytics, edge-AI systems, ML models, UAV-based monitoring, and integrations with IoT/SCADA infrastructure.
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AI & Video Analytics Capabilities

- PPE and safety compliance detection (helmets, vests, "3-points of contact")
- Hazard zone and behavioral monitoring on industrial sites
- Quality control automation
- Traffic and public safety analytics for Smart City
- Edge-AI for remote areas or unstable connectivity
- Integration with PLC / SCADA / MES systems
- Alerts, insights, reporting, operational dashboards

AgroTech:
AI + UAV + IoT :

- Crop health monitoring (NDVI/NDRE/Multi-spectral)
- Early detection of stress, diseases, pest risks
- Irrigation optimization and soil humidity mapping
- Yield prediction models
- Field mapping and territory 3D reconstruction
- Livestock monitoring and perimeter control
- Automated crop-condition reporting

Data sources: drones (RGB/multi-spectral), fixed cameras, mobile devices, IoT sensors, satellite imagery.

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Project Examples

☞ Industrial Safety (CV + IoT)

☞ Logistics / Warehousing

☞ AgroTech / UAV Monitoring

Industrial Safety (CV + IoT)

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- Industrial safety monitoring (PPE, behavior, "3-points-of-contact")

- Smart City traffic analytics and public safety

- Edge-AI for remote or high-load environments

- Intelligent safety alerts

Logistics / Warehousing

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– Cargo tracking and zone analytics

– Vehicle movement monitoring

– Label and quantity verification

- Warehouse/port monitoring and operational optimization

AgroTech / UAV Monitoring

– Drone-based field scanning and crop health analytics (NDVI, multispectral, RGB)

– Stress mapping and anomaly detection
Productivity forecasting and farm digitalization

– ERP / Farm-management integrations

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Python, PyTorch, TensorFlow, OpenCV, YOLOv8/v10, MMDetection, DeepStream, NVIDIA Jetson, Edge TPU, UAV SDK, QGIS, PostGIS, MQTT, Grafana.

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- Growing need for smart agriculture and yield optimization
- Large-scale farmlands, plantations, aquaculture zones
- Strong industrial sector with demand for safety automation
- High interest in drone-based monitoring and analytics
- Government push for digital transformation in agriculture
- Demand for alternative (non-Chinese/non-US) AI vendors

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- AI video analytics for industrial parks and factories

- Smart City traffic and public safety solutions

- UAV-based crop monitoring & AI analytics

- Localized delivery with VN + RU + Serbia teams

- Fast POC (2–4 weeks) and scalable rollout

Contacts

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