

## EDGE AI MATURITY ASSESSMENT CHECKLIST

Elevate. Prepare. Excel. Benchmark your edge Al readiness

Edge AI is rapidly transforming industries, unlocking new efficiencies, capabilities, and insights. Are you ready to harness this game-changing technology?

Our Edge AI Maturity Assessment Checklist can help you assess your organization's readiness for a successful edge AI journey. This checklist will guide you in evaluating key areas essential for implementing and scaling edge AI initiatives. Whether you're at the start or looking to advance existing efforts, this guide will provide actionable insights to support informed decision-making and strategic planning.

and	a strategic planning.
	Strategic Alignment Clear business objectives identified for implementing edge Al Edge Al initiatives aligned with overall company strategy Key stakeholders across departments are engaged and supportive
<b>2.</b>	Development Capabilities Internal AI/ML expertise assessed Skills gap analysis completed Training or hiring plan to address skill gaps in place Familiarity with edge AI development tools and frameworks
<b>3.</b>	Use Case Definition  Specific edge AI use cases prioritized and documented  Return on Investment (ROI) for each use case estimated  Success metrics and Key Performance Indicators (KPIs) defined for each use case
<b>4.</b>	Technical Infrastructure  Edge devices/hardware requirements specified  Network capabilities assessed (e.g., connectivity, latency, bandwidth)  Cloud-edge hybrid architecture designed (if applicable)  Scalability needs identified and plans created for addressing them
<b>5.</b>	Ethical AI Considerations  Ethical implications of edge AI applications assessed  Bias detection and mitigation strategies implemented  Ensured AI decision-making processes are transparent and understandable  Governance structure for ethical AI use established
6.	Data Readiness  Relevant data sources identified and accessible.  Create a data collection program if starting from scratch  Data quality and quantity metrics defined  Data privacy and security requirements understood and addressed  Plan for ongoing data collection and management in place

7. 0 0	Model Development  Experimental set of models and DSP algorithms selected or custom development plan in place  Model optimization for edge deployment strategy defined  Testing and validation procedures established  Plan for model updates and maintenance created
8. 	Performance Optimization  Benchmarking criteria for on-device performance established  Power consumption and efficiency targets set  Latency requirements for real-time applications defined  Plan for continuous performance monitoring and improvement in place
9.	Integration and Deployment Integration points with existing systems identified Deployment strategy (e.g., gradual rollout, pilot testing) defined Monitoring and logging systems for edge AI performance in place Model monitoring and update strategy defined Rollback and failover procedures established
10. 	Edge Al-specific security risks assessed Data protection measures for edge devices implemented Compliance with relevant regulations (e.g., GDPR, CCPA) ensured Regular security audit process established
	Commercial Readiness Go-to-market strategy for edge AI-enabled products/services defined Pricing model for edge AI solutions determined Customer support processes for edge AI offerings established Partner ecosystem for deployment and scaling identified
12.	Future-Proofing  Roadmap for future edge AI capabilities and use cases created  Flexibility for hardware/software upgrades built into the strategy  Continuous learning and adaptation mechanisms for AI models planned  Strategy for staying current with edge AI trends and advancements

Unlock your full edge AI potential. Sign up for the Professional Plan.

Have questions? Our team is here to help. Contact us.

Edge Impulse is the leading platform for building, deploying, and scaling edge machine learning models. Visit our website to **learn more**.