NeuroSafety™ Compliance & Ethics Overview

Introduction

The NeuroSafety™ platform by Noctua is engineered with safety, ethics, and transparency as its core values. This overview summarizes our commitment to responsible AI, regulatory alignment, and human-centered development.

Regulatory Compliance Summary

NeuroSafety™ adheres to the following global and industry-specific compliance standards:

- General Data Protection Regulation (GDPR)
- Health Insurance Portability and Accountability Act (HIPAA)
- Occupational Safety and Health Administration (OSHA) integration
- ISO/IEC 27001 and 27701 (Information Security & Privacy)
- NIST AI Risk Management Framework alignment

AI Ethics Principles

Our ethics-first development approach is guided by internationally recognized principles:

- Fairness & Non-Discrimination: AI models are audited to avoid demographic bias
- Transparency: All decision paths are explainable with integrated tools
- Privacy by Design: Encryption and federated learning protect user data
- Human-in-the-Loop: All safety decisions require human supervision

Data Protection Measures

- AES-256 encryption at rest and TLS 1.3 in transit
- Role-Based Access Control (RBAC) and audit logging
- Edge processing capabilities to prevent unnecessary data transmission
- Anonymization and minimal retention policies

Certifications and Ethical Partnerships

- ISO/IEC 27001 certified infrastructure
- Member of Partnership on AI and AI4People
- Ethics and safety reviews by third-party red teams
- Regular updates aligned with evolving AI ethics regulations

Commitment to Trust & Safety

Noctua is committed to building a future where cognitive safety AI systems work transparently, responsibly, and ethically. NeuroSafety™ exemplifies this mission through robust safeguards, continuous monitoring, and ethical model deployment practices.