7 Future Trends

7.1 Research Frontiers

7.1.1 Efficiency and Compact Models
- Compression & Efficiency Techniques
- Lightweight Architecture Design

7.1.2 Functionality Enhancement
- Structured and Multimodal Data
- Multi-Agent and Human-AI Collaboration
- Personalization Interaction Experience

7.1.3 Next-Gen AI Processors
- System Optimization
- Specialized AI Chips
- Hardware-Software Co-Design
- Cloud-Edge Collaboration

7.2 Community Ecosystem

7.2.1 Reliability
- Privacy and Sensitive Information
- Model Robustness
- Output Control

7.2.2 Market Competition
- Model Competition: Compression & Capability
- Ecosystem Competition: App-Level to System-Level, Intelligent Agents & Software Invocation

7.2.3 Ethics and Standardization
- Legal and Ethical Frameworks
- Standards for Interface, Framework and Service
- Authority and Permission Boundaries

7.2.4 Green Computing and Sustainablility
- Environmental Impact Comparison between Cloud and Edge
- Edge LLMs Driving Sustainability