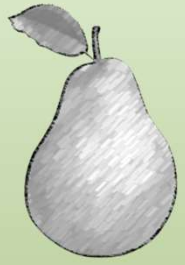
AI Companionship and Energy-Efficient Hardware

Cartheur Research, Den Haag, The Netherlands

Beyond Limits: An AeonAI for Future-proofing a Human-centric Scenario

Problem statement



- **Context:** Elon Musk has acknowledged that we've reached the zenith of data availability for AI training. This scarcity poses a significant challenge for AI development, emphasizing the need for efficiency over volume.
- **Problem:** Traditional AI systems are data-hungry, built upon non-optimal design processors, leading to inefficiencies in both computation and energy consumption.
- **Need:** A solution that maximizes AI performance with minimal data and energy use. DeepSeek has opened the door for this. Other brute-force attempts at AI Infrastructure will most likely fail or best-case, become a disappointment.

Solution features

- **Adaptive Learning Algorithms:** Our AeonAI can learn from existing data more effectively, reducing the need for new data inputs and working as *Ideal*.
- **Energy-Efficient Hardware:** Custom processors designed to handle AI computations with significantly less power.
- **Optimized Data Usage:** Techniques like non-redundant transfer learning and data augmentation to maximize the utility of available data without synthesis.
- **Real-time System Optimization:** AiOps continuously adjusts AeonAI operations for peak efficiency leveraging *Ideal*.

Target audience

- **Primary:** AI Developers and Data Scientists in tech firms seeking to innovate with limited data. Democratization of compute resources possible given the ability to exceed the hard-energy limit.
- **Secondary:** Large Enterprises with sustainability goals aiming to reduce their carbon footprint through IT infrastructure.
- **Tertiary:** Government and Academia for research in AI with constraints on data availability.
- **Beneficial:** Sovereign focused operations encourage individual participation.

Competitive analysis

- **OpenAI, Oracle, Claude, Meta:** Focuses on data volume and brute-force solutions; struggles with efficiency and needs a nuclear reactor to run datacenters.
- **DeepSeek:** Has excellent data-efficient solutions but lacks in AI optimization-as-embodiment.
- **Cartheur:** Novel compute hardware with energy sustainability, tailored for data scarcity, where AeonAI leverage RL to minimize compute and energy consumption per cycle.

Success case

- **Project Name:** "BumaAI" with a major service company.
- **Challenge:** Optimize behavior to reduce losses.
- **Solution:** Implemented our AiOps in Kubernetes – A single bazel solution.
- **Outcome:** Achieved a 40% reduction in failure-case while maintaining infrastructure performance.

Notable achievements

- **Patents:** New patents on energy-efficient AI-hardware-structural processing.
- **Processes:** Enhanced intelligence of AeonAI by the introduction of a live *learning mode*.
- **Infrastructure cost:** Ability to utilize open-source Kubernetes tools.
- **Milestones:** Reduced computational tasks-per-energy unit by 90%.

Future roadmap

- **Phase 1 (2025):** Develop enhanced product line embodied into energy-efficient AI processors.
- **Phase 2 (2026):** Introduce next-generation processor for larger concept data-centers and cloud services.
- **Phase 3 (2027):** Global rollout of our solutions, targeting major markets in USA. Europe, and Asia.
- **Phase 4 (2028):** Introduction of personal compute and sovereign wallet robots.
- **Long Term:** Aim to be the leader in AI efficiency, exploring quantum computing for further advancements while keeping humanity firmly in-focus.

Investment & Partnership opportunities

- **Funding Needed:** $10 Million for product development, chip manufacturing production, and R&D.
- **Use of Funds:**
  - 30% R&D for AeonAI, chip-hardware improvements, and features.
  - 20% Expansion of manufacturing capabilities.
  - 30% Embodiment challenges and experiential automation.
  - 10% New customer acquisition.
  - 10% Marketing and global outreach.
- **Partnerships:** Seeking collaborations with retail, institutional, and sustainable technology advocates.

Team

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Systems Designer and Creator of AeonAI

Danie Bohm
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Product & Process Development

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Conclusion

- **Summary:** We have arrived the end of a technological paradigm of AI; the limit of both data and energy has been reached. Without new ideas of computers, we will relentlessly continue to fund brute-force methods to further endanger ourselves and our environment. A new approach is required not just about managing AI with limited data but doing so in an energy-conscious manner.
- **Call to Action:** Join us in establishing a future for AI, and human-machine interfaces where efficiency and sustainability go hand-in-hand.
- **Ideation:** Listed on our github pages: https://github.com/cartheur. Parsed by Organizations.
- **Contact:**

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