

**Hugging Face**ML-The-AI-Engineer/**Michael-Lorenz**

like

0



English

doi:10.57967/hf/5836

artificial-intelligence

digital-twin

battery-technology

systems-thinking

ai-engineer

strategic-innovator

human-ai-collaboration

agent-architecture

sustainability

open-science

digital-identity

knowledge-graph



License: creativeml-openrail-m



Model card

**Files**

Community



Settings

main Michael-Lorenz / README.md



ML-The-AI-Engineer

docs: Add YouTube and YouTube Music permalinks

468aa17

VERIFIED

Preview

Code



</> raw



Copy download link



history



blame



edit



delete



11.6 kB

metadata

license: creativeml-openrail-m

language:

- en

tags:

- artificial-intelligence
- digital-twin
- battery-technology
- systems-thinking
- ai-engineer
- strategic-innovator
- human-ai-collaboration
- agent-architecture
- sustainability
- open-science
- digital-identity
- knowledge-graph

Michael Lorenz, M.Sc. Energy & Environment Technology (KIT) - AI Engineer, Cognitive Technologist & Strategic Innovator

Welcome to the official GitHub profile of **Michael Lorenz**, M.Sc. Energy & Environment Technology (KIT), an engineer and technologist with a strong focus on artificial intelligence, battery technology, digital twin infrastructure, and cognitive system design.

Driven by curiosity, sustainability, and the pursuit of long-term value, I build bridges between **engineering, AI innovation**, and **strategic systems thinking**. My work combines cloud-native technologies, intelligent infrastructures, and data-centric engineering methods with a deep interest in **human-AI collaboration**, **open science**, and **future-proof design principles**.

About me

With a background in computational engineering and applied AI, I create and share insights that enable:

- more resilient and interpretable AI systems
- next-generation solutions for battery testing and lifecycle prediction
- sustainable innovation models based on digital twin concepts and systemic transformation logic

I'm especially passionate about developing **AI-powered frameworks** that integrate human reasoning, cognitive science, and technological foresight. This includes exploring **neurosymbolic systems**, **agent architectures**, and intelligent infrastructure for circular economy applications.

Connect with me across platforms

Professional & Technical Profiles

- **GitHub** - AI Engineering Projects & Digital Twin Concepts
<https://github.com/MICHAEL-LORENZ>
- **GitLab** - Machine Learning, Battery Testing & Open Infrastructure
<https://gitlab.com/MichaelLorenz> / <https://michael-lorenz.gitlab.io/>
- **GitLab Forum** - Discussions on Machine Learning, Battery Testing & Open Infrastructure
<https://forum.gitlab.com/u/michaellorenz/>
- **Kaggle** - AI Notebooks, Benchmark Datasets & Battery Analytics
<https://www.kaggle.com/mltheaiengineer>
- **Hugging Face** – AI Models, Datasets & Spaces
<https://huggingface.co/ML-The-AI-Engineer>
- **Google Developer Profile** - Cloud, AI, IoT & Public Code
<https://developers.google.com/profile/u/michaellorenz>
- **Google Cloud Skills Boost** - Hands-on Labs & Skill Badges
https://www.cloudskillsboost.google/public_profiles/ad995a21-5bb3-4e9a-9a07-f2f22fe4c0fa
- **Microsoft Learn** - AI & Cloud Learning Paths
<https://learn.microsoft.com/de-de/users/artificial-intelligence>
- **Microsoft Tech Community** - Forums & Events
<https://techcommunity.microsoft.com/users/michael-lorenz/2879362>
- **Stack Overflow** - Developer Q&A and Knowledge Sharing
<https://stackoverflow.com/users/30133682/michael-lorenz>

- **Meta Stack Exchange** - Cross-network Q&A
<https://meta.stackexchange.com/users/1727041/michael-lorenz>
- **Xing** - Professional Network
https://www.xing.com/profile/Michael_Lorenz78
- **OpenAI Community** - AI Discussions & Collaboration
<https://community.openai.com/u/ml-the-ai-engineer>
- **Google Scholar** - Scientific References
https://scholar.google.de/citations?hl=de&user=_avA-RAAAAAJ
- **ResearchGate** - Publications & R&D Network
<https://www.researchgate.net/profile/Michael-Lorenz-14>
- **ORCID** - R&D Publications
<https://orcid.org/0009-0009-1186-8298>
- **Semantic Scholar** - R&D Publications
<https://www.semanticscholar.org/author/Michael-Lorenz/2308043299/>
- **Credly** - Verified Certifications
<https://www.credly.com/users/michaellorenz>

Public Presence & Social Commentary

- **LinkedIn** - Strategy, AI Transformation & Battery Tech
<https://www.linkedin.com/in/michael-lorenz-battery-and-ai/>
- **X (Twitter)** - Real-time Insights & Updates

https://www.x.com/_Michael_Lorenz

- **Bluesky (Professional)** - Tech Foresight & Systemic Thinking

<https://bsky.app/profile/ml-the-ai-engineer.bsky.social>

- **Bluesky (Personal)** - Reflections & Human-Tech Interaction

<https://www.bsky.app/profile/michael-lorenz.bsky.social>

- **Threads** - Microcommentary on AI & Culture

https://www.threads.net/@michael_lorenz_/

- **Mastodon** - Decentralized Tech Discourse

<https://mastodon.social/@MichaelLorenz@mastodon.social>

- **Instagram** - Visual Tech & Lifestyle

https://www.instagram.com/michael_lorenz_/

- **TikTok** - AI-Generated Shorts & Insights

<https://www.tiktok.com/@michael.lorenz.ai>

- **Reddit** - Discussions on Intelligence & Growth

https://www.reddit.com/user/Michael_Lorenz_AI/

- **Quora** – Q&A and Knowledge Sharing

<https://www.quora.com/profile/Michael-Lorenz-86>

- **Amazon** – Book Reviews & Profile Description

<https://www.amazon.de/gp/profile/amzn1.account.AE3U3LWUBVOSMTZ2IK7AE4FHPD3A>

- **Xing** - Secondary Professional Presence

https://www.xing.com/profile/Michael_Lorenz78



Writing & Publications

- **Substack** – Newsletter & Articles
<https://michaellorenz.substack.com>
- **Substack** – Google Cloud Skills Boost Profile
<https://googlecloudskillsboost.substack.com/>
- **Medium** – Articles & Insights
<https://medium.com/@michael-lorenz/>
- **Amazon Author Page** – Books & Publications
<https://www.amazon.com/author/michaellorenz>
- **Amazon Kindle Direct Publishing Page** – Profile Page
<https://www.kdpcommunity.com/s/profile/005at000001pdjV>
- **Fabrication and characterization of aluminum-containing ferritic ODS alloys for improved corrosion resistance** – Paper on KIT Page
<https://publikationen.bibliothek.kit.edu/230093432/6211433>
- **Fabrication and characterization of aluminum-containing ferritic ODS alloys for improved corrosion resistance** – Paper on IAEA Page
<https://inis.iaea.org/records/3dhkc-65y07>



AI Tools & Strategic GPTs

- **GenAI, Digital Twin & IoT GPT** - AI Architectures & Scenarios
<https://chatgpt.com/g/g-67847826734081918648116dfa8f8fa9-michael-lorenz-generative-ai->

[digital-twin-iot](#)

- **Digital Leadership Transformation AI-Coach** - Innovation & Change Coaching
<https://chatgpt.com/g/g-6756044be0c481919498df3cbee65aa1-digital-leadership-transformation-ai-coach>
- **Digital AI Learning Journey Coach** - Personalized AI Learning Paths
<https://chatgpt.com/g/g-675b77c12aec819182ebc9ec62428a34-digital-ai-learning-journey-coach-v1-0>
- **Michael Lorenz, M.Sc. Energy & Environment (KIT)** - Personalized AI-Self
<https://chatgpt.com/g/g-681f75b42a988191b3de50602d3a35e0-michael-lorenz-m-sc-energy-environment-kit>
- **Claude-based Leadership Assessment** - AI-assisted Self-Evaluation
<https://claude.site/artifacts/f5b4d943-399b-4eb8-8f7d-49a128a53b37>
- **ChatGPT Deep Research - Personality Analysis**
<https://chatgpt.com/share/67c0d169-e70c-8003-81ce-0ee6510305b0>
- **HuggingFace GPT Version** - Chat Assistant Instance
<https://hf.co/chat/assistant/67c09fe4b28867ad6f7b9d69>
- **Perplexity AI** - Instant Answers & Search
<https://www.perplexity.ai/search/michael-lorenz-perplexity-ai-QiOyThlFS3208dSt9UnvZg>

Courses, Certifications & Communities

- **Coursera** - AI & Data Science Courses
<https://www.coursera.org/learner/michael-lorenz>

- **Udemy** - Technical & Strategic Skill Development
<https://www.udemy.com/user/michael-lorenz-3/>
- **Udemy Community** - Peer Discussions & Q&A
https://community.udemy.com/en/profile/321692/Michael_Lorenz
- **Udacity** - Nanodegree Alumni Network
<https://community.udacity.com/u/a08a550f>
- **NVIDIA Developer Forum** – GPU & AI Community
<https://forums.developer.nvidia.com/u/michael-lorenz>
- **Google AI Developer Forum** – AI Tools & Discussion
https://discuss.ai.google.dev/u/Michael_Lorenz/
- **Hugging Face Discuss** – Community & Collaboration
<https://discuss.huggingface.co/u/ml-the-ai-engineer>
- **Make Community** - Automation & Integration Forum
<https://community.make.com/u/ml-the-ai-engineer>
- **n8n Community** - Workflow Automation Community
<https://community.n8n.io/u/michael-lorenz/>
- **Google Cloud Community** - AI & Cloud Community
<https://www.googlecloudcommunity.com/gc/user/viewprofilepage/user-id/525873>

Podcasts & Audio Platforms

- **Spotify Podcast Creator** - Michael Lorenz AI & Strategy

<https://creators.spotify.com/pod/show/michaellorenz/>

- **Spotify Podcast (Substack Feed)** - Michael Lorenz, M.Sc. Energy & Environment Technology (KIT) Podcast

<https://open.spotify.com/show/6cLgxvWLctWP9GIQabfkeI>

- **Spotify Podcast** - Welcome to Michael Lorenz – The Podcast on AI, Digital Strategy and Future Technologies! Podcast

<https://open.spotify.com/show/3HSjv4rE680CIC5rxug2F>

- **Spotify Podcast RSS Feed** - Welcome to Michael Lorenz – The Podcast on AI, Digital Strategy and Future Technologies!

<https://anchor.fm/s/10295b2f0/podcast/rss>

- **Substack Podcast RSS Feed** - Michael Lorenz M.Sc. Energy

<https://api.substack.com/feed/podcast/4336081.rss>

- **YouTube** - ML & AI

https://youtube.com/channel/UCBJ90d_WBRG3zvQumykJjJw

- **YouTube Music Podcast** - Energy & AI Insights

https://music.youtube.com/channel/UCBJ90d_WBRG3zvQumykJjJw

- **Amazon Music Podcast (Substack RSS)**

<https://music.amazon.de/podcasts/258dd4a9-b27b-42e9-976c-fb9395b5a507/michael-lorenz-m-sc-energy-podcast>

- **Amazon Music Podcast (Spotify RSS)**

<https://music.amazon.de/podcasts/7988f1e5-35f2-49b6-81a0-714e9c3dd6c0/welcome-to-michael-lorenz-%E2%80%93-the-podcast-on-ai-digital-strategy-and-future-technologies>

- 
- Other & Local

- 11 von 13

https://www.localguidesconnect.com/u/Michael_Lorenz/summary

- **Google Site** - Central Hub & Portfolio

<https://sites.google.com/view/michael-lorenz/home>

- **PayPal.me** – Support & Contributions

<https://www.paypal.com/paypalme/MichaelLorenz86>

Repository roadmap (upcoming)

- `battery-twin`: AI-based diagnostics & prediction for battery lifecycle and reuse
- `cognitive-agent-lab`: tools for strategic decision-making and explainable AI behavior
- `sustainability-insight-engine`: data-driven models for circular economy metrics

License

The content in this repository is licensed under the [CreativeML OpenRAIL-M license](#).

“My aim is to foster open, sustainable, and collaborative technology ecosystems.”

