

Al and Blockchain

Overlapping or just an intersection of two overhyped topics

Agenda

- 1. Intro
- 2. Combination of AI and Blockchain Technology
- 3. Al Negative use cases
- 4. DeepFakes
- 5. Countering DeepFakes with Blockchain Technology
- 6. QA



Intro

No need to introduce Blockchain Tech

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- Al is a bit of a different story
 - Classic AI (CNN, RNN, ML etc.)
 - Large Language Models (Words, sentences and attention)

Aus wievielen Zeichen besteht der Satz: "hallo wie gehts?"

Der Satz "hallo wie gehts?" besteht aus 18 Zeichen. Hier ist die Aufteilung:

"hallo": 5 Zeichen

"" (Leerzeichen): 1 Zeichen

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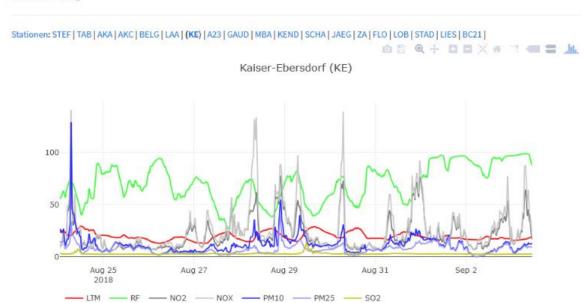


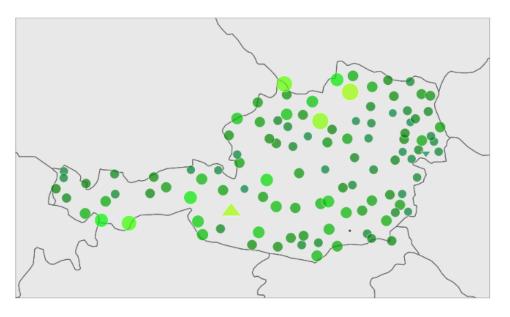
Combination of AI and Blockchain Tech 1

The Austrian "Air Quality Chain"

AQC (Air Quality Chain) Testsystem: Messdaten Wien

Kurzbeschreibung



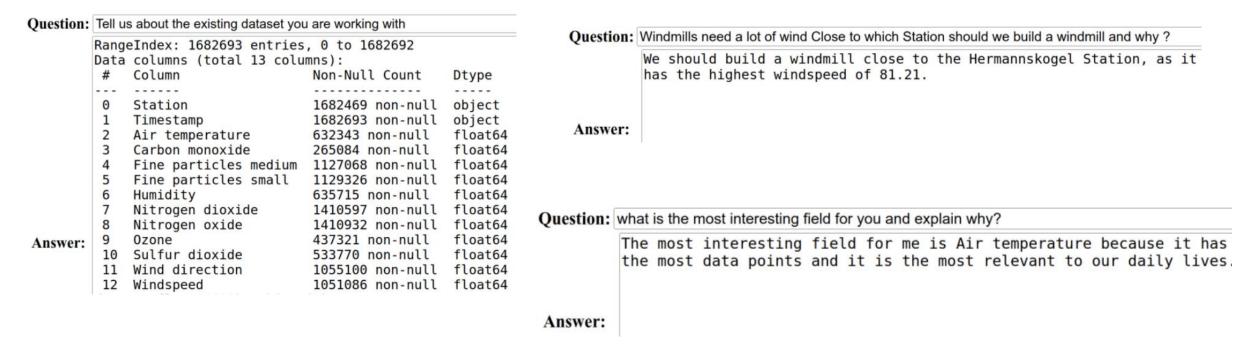


Ladezeit Daten aus AQC-Blockchain: 42.4 ms.



Combination of AI and Blockchain Tech 2

Interacting with "AQC" using Al



It is actually possible to talk to a blockchain in a natural language



Al can be misused as well

Every technology can be used in a positive or negative way

- DeepFakes
- Automated Disinformation
- Surveillance Overreach

Tax authorities discover 120,000 undeclared swimming pools in France

Aerial photography and artificial intelligence were used to help identify homeowners who had not declared their swimming pools



Aerial shots enable authorities to detect completed pools that have not been declared for tax purposes Ally Foster / Shutterstock

Source https://connexionfrance.com



Al can be misused as well - DeepFakes

Deepfakes, created using AI and machine learning techniques, involve the manipulation or generation of visual and audio content that convincingly imitates real people.



Illustration 1: Barack Obama - DeepFake - impersonated



Use of Blockchain Tech to counter DeepFakes 1

Blockchain Notarization can be an effective tool to combat this issue by providing a way to verify the authenticity of digital media. Here's how blockchain notarization can help defeat DeepFakes.

- Immutable Records
- Decentralized- and Real-time Verification
- Provenance Tracking



Illustration 2: Blockchains are immutable

The perfect attributes to identify any type of "Fake"



Use of Blockchain Tech to counter DeepFakes 2

How Blockchain Certification/Notarization can combat Deep Fakes





Illustration 2: Using Blockchain Certificatoin/Notarization to counter DeepFakes





Thank You!

