



Innovation Garage 2025 Info Point AI assistant

Inspired by ChatOPM application for Customer Support for Regulatory Solution products

INNOVATION GARAGE DEMO LIST PROPOSAL FOR YOU:

CONVERSATION TRANSCRIPT

User: Ciao volevo conoscere tutte le demo presenti nell'Innovation Garage del sito di Pagani.

Assistant: Here are the demos presented at the Innovation Garage located in Pagani, and they are truly exciting and innovative:

Smart Ambulance

- This demo showcases how the combination of 5G networks and artificial intelligence can significantly enhance emergency healthcare. It utilizes an AI emergency toolbox to analyze ECG traces for the early diagnosis of cardiovascular diseases. The demo involves a high-speed connection over a 5G network between an ambulance and a doctor, who can remotely support the emergency and receive analyzed ECG traces with classification outcomes and explainability analysis. This technology has the potential to save lives by enabling real-time remote support and accurate diagnoses.

Against Fraud Voice Distortion

- This demo features a network service that uses AI/ML to detect the use of synthetic speech mimicking a specific individual's voice for fraudulent purposes. When synthetic speech is identified, alerts are sent to the affected user, trusted contacts, and/or relevant external organizations, providing an additional layer of security and protection.

Against Identified Stalker

- This demo employs Lawful Interception techniques to protect stalking victims by monitoring the distance between the victim and the stalker using 4G/5G network localization. An alarm is triggered when the safe distance threshold is exceeded, warning the victim of potential danger and ensuring their safety.

Quantum for Network Security

- This demo presents a portable, modular software agent that applies Post-Quantum Cryptography and Quantum Key Distribution, installed on routers in a Wide Area Network. The agent can set the appropriate end-to-end security level based on hardware security resources and crypto-agility concepts, ensuring robust and future-proof network security.

Network Troubleshooting

- This demo uses a telecom knowledge base with a Retrieval-Augmented Generation (RAG) database to troubleshoot telecom networks efficiently. The AI assistant monitors network issues, applies remedies, and enhances internal efficiency in verification activities. It interacts with human operators through a chatbot to resolve configuration errors and other network issues, streamlining the troubleshooting process.

Enterprise Configuration

- This demo showcases a collaborative generative AI agent system that develops software applications to instruct Cobots based on requirements from a human operator. The system uses multiple AI agents to translate natural language requirements into concrete actions, applicable to various automation domains, making automation more accessible and efficient.

Enterprise Resource Optimization

- This demo features a centralized licensing system that actively manages industrial resources using data collection and AI/ML techniques. The system optimizes energy saving, resource preemption, and predictive maintenance in a smart factory scenario, leading to increased efficiency and reduced costs.

For more detailed information on any of these demos, you can ask specific questions about their technical topics, duration, or the speakers involved. These demos are at the forefront of innovation and are set to revolutionize various industries.

Faithfulness is 1.0 [0.0 - 1.0]

User: Puoi darmi qualche dettaglio in più sulla demo "Quantum for Network Security"?

Assistant: La demo "Quantum for Network Security" presentata nell'Innovation Garage di Pagani è una dimostrazione eccellente di come affrontare le minacce quantistiche per la sicurezza delle reti. Ecco i dettagli principali:

Tecnologia

- La demo utilizza una tecnologia avanzata basata su Post-Quantum Cryptography (PQC) e Quantum Key Distribution (QKD), garantendo l'uso di algoritmi crittografici resistenti agli attacchi dei computer quantistici. Questo approccio è cruciale per prepararsi alle future minacce quantistiche[4].

Architettura

- Il sistema include un agente software modulare e portatile che può essere installato sui router di una Wide Area Network. Questo agente può utilizzare PQC e QKD per garantire la sicurezza end-to-end della rete, offrendo una protezione completa e affidabile[5].

Gestione della Sicurezza

- L'agente è gestito da un orchestratore che può impostare automaticamente il livello di sicurezza appropriato per un percorso o slice di rete, basandosi sulle risorse di sicurezza dell'hardware sottostante e sui concetti di crypto-agilità più recenti. Ciò permette di adattare la sicurezza alle esigenze specifiche della rete e di rispondere rapidamente a nuove vulnerabilità, assicurando una gestione della sicurezza dinamica e efficace[5].

Crypto-Agilità

- La demo sottolinea l'importanza della crypto-agilità, ovvero la capacità di sostituire o aggiornare rapidamente i metodi crittografici per minimizzare le interruzioni. Questo approccio consente di

rispondere efficacemente a nuove vulnerabilità e di incorporare gli ultimi avanzamenti crittografici, mantenendo la rete sempre al passo con le tecnologie più avanzate[4].

Applicabilità

- Il sistema è progettato per essere deployabile in tutta la rete, specialmente ai bordi della rete, per garantire la sicurezza della comunicazione end-to-end tra i dispositivi utilizzando modelli crittografici ibridi adatti alle esigenze specifiche delle applicazioni. Questa flessibilità e adattabilità rendono il sistema ideale per una vasta gamma di scenari[5].

In sintesi, la demo "Quantum for Network Security" dimostra come la combinazione di PQC, QKD e crypto-agilità possa fornire una sicurezza robusta, adattabile e futuristica per le reti di telecomunicazione, proteggendole dalle minacce quantistiche future in modo efficace e innovativo.

Faithfulness is 1.0 [0.0 - 1.0]

User: grazie mille

Assistant: Given the sentiment score of 82, here is the processed text, maintaining the original style and tone while ensuring a positive and clear presentation:

"Grazie mille" is a common and polite way to express gratitude in Italian. Here are some key points about this phrase:

Meaning

- "Grazie mille" translates to "thank you very much" or "thanks a million." Although "mille" means "thousand," the phrase is often used to convey a strong sense of gratitude, similar to the English phrase "thanks a million"[1][3][4].

Usage

- This phrase is suitable for both informal and semi-formal contexts. It can be used with family, friends, or even strangers when you want to express significant appreciation[1][2][3].

Pronunciation

- The correct pronunciation is "GRAH-tzee MEE-leh," with a slight emphasis on the "mille" part. It's important to include the soft "e" sound at the end of "grazie"[1][5].

Context

- "Grazie mille" can be used in various situations, such as when receiving a gift, after a meal, or when someone has helped you significantly. For example:

- "Il tuo regalo è stato molto apprezzato. Grazie mille!" which means "Your present was greatly appreciated. Thank you very much!"[2].

Enjoy the Innovation Garage Demo

Faithfulness is 0.0 [0.0 - 1.0]