LITERATURE SURVEY FOR REAL TIME COMMUNICATION SYSTEM POWERED BY AI FOR ESPECIALLY ABLED

1.INTRODUCTION:

Real time communication system (RTC) is used to improve a real – time immersive experience and interaction, as well as accelerate intelligence upgrades for industrial internet – of – things (IOT) and digital twins, multiple companies are now considering new usage scenarios.

2.APPLICATIONS:

We discuss edge AI enabled application scenarios by inspiring new communication algorithms, resource allocation optimization algorithms, as well as data processing methods.

- Autonomous Driving: Autonomous driving basically refers to self-driving vehicles that move without the intervention of human drivers. Autonomous driving can significantly improve the safety, passenger comfort, travel and logistics efficiency, collision avoidance, and energy efficiency.
- Internet of Things: Artificial Intelligence of Things (Ait) leverages AI technologies and IoT infrastructures to improve the human-machine interactions and enable multi-agent communications and collaborations. Ait goes beyond the conventional communication paradigm for audio, video and data delivery. It will enable semantic communication [58] to exchange semantic information among agents.

- Smart Healthcare: Smart healthcare aims to realize a common platform for efficient and personalized healthcare, intelligent health monitoring, and precision medicine development via collaboration among multiple participants (e.g., doctors, patients, hospitals, and research institutions). This is achieved by emerging advanced technologies, including Tactile Internet, IoT, edge AI, and wireless communications.

3.CONCLUSION:

In this paper, we have investigated the key wireless communication techniques, effective resource management approaches and holistic network architectures to design scalable and trustworthy edge AI systems. The standardizations, platforms, and applications were also discussed for productization and commercialization of edge.

4.PROS AND CONS OF REAL TIME COMMUNICATION:

- Whether it is through instant messaging, a phone call, email chains, video conferencing or a text messages, technology enabled, real-time communication has both its pros and its cons.

- In today's workplace we're able to take advantage of these capabilities to make communicating with co-workers and clients easier.

- As a result of this digital transformation, in-person conversation has become the last resort when it comes to professional communication.

- With this information, you can make the right decision when choosing your means of communication.

EXISTING SOLUTIONS:

- Face-to-face conversation allows for increased adaptivity and emotional interpretation.

- Get your answer as soon as you ask the question.

- Read the room and learn how your peers feel through non-verbal cues.

- Retain personality-sharing and team-building elements of group conversation.

PROBLEMS:

- An inability to focus and make any meaningful progress in work.
- The constant interruptions, and context-switching draining mental resources.

- A constant FOMO (Fear of Missing Out) due to connectivity being made a priority over productivity.
- More stress, high frustration and time pressure, which can lead to burnout
- Lower quality discussions due to lack of time to think and reflect.
- No offline time, which leads to a constant connection with work,

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