

Edge computing and IoT

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Motivation and Aim:

- The market for Internet of Things is expected to be a \$500 bn opportunity by 2025. This is made possible by faster connectivity, improved AI and data analytics at the cloud level and efficient computing at the device level.
- Interestingly, IoT enabled products often consist of two technologies, Edge computing and Cloud Computing. The presence of these two computing paradigms enables a seamless service for consumers.
- The following questions are to be addressed: What is edge computing and cloud computing? What are the main applications of these two computing environments? Are these two computing environments substitutes to each other or complementary technologies? Do firms in a specific industry favor one computing environment over the other and why?

The thesis has to be written in English.

References and related literature:

- Hassan, N., Gillani, S., Ahmed, E., Yaqoob, I., & Imran, M. (2018). The role of edge computing in internet of things. *IEEE Communications Magazine*, 56(11), 110-115.
- Silva, P., Costan, A., & Antoniu, G. (2019, December). Investigating edge vs. cloud computing trade-offs for stream processing. In *2019 IEEE International Conference on Big Data (Big Data)* (pp. 469-474). IEEE.