

Towards “Intelligent” Quantum Computers

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Here I will present some of the latest developments at Multiverse Computing in quantum AI. In particular, I will focus on how to build a hybrid quantum-classical LLM. This will be implemented in three steps: LLM compression via Tensor Networks, codification of the tensor networks as quantum circuits of disentanglers, and enhancement of the LLM via extra layers of variational unitaries. This approach allows for a scalable growth in the number of parameters of the (quantum) LLM by means of quantum processors. Implications in several industries and uses cases will also be discussed.