



Information Technologies in Life Science

Taking healthcare to a new level with
A.I. and Quantum Computing

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- With fundamental changes in the field of life science, information technologies can advance a company's success in the marketplace by solving tough challenges and creating new opportunities in medicine and healthcare.

What is A.I.?

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- A.I. is Artificial intelligence.
- Artificial intelligence is the ability of a computer to mimic the “cognitive” functions of a human brain such as “learning” and “problem solving”.
- Typical use of A.I. in life science includes facial/speech recognition, natural language processing, medical robotics, clinical diagnosis, image analysis, administrative data processing, virtual assistance, etc.

What is quantum computing?

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- Quantum computing is the performing of computations using the phenomena of quantum mechanics such as "superposition", "entanglement", and "interference".
- Quantum computers use "qubits" which can be in a superposition of the 1 and 0 states.
- In certain case, a quantum computer is exponentially more efficient and can solve problems in hours that would require years for even the most powerful classical computer we have today.
- Typical examples of use in life science includes medical data management/search/security, genomic sequencing, molecular simulations, genetic engineering, targeted therapy, disease screening, etc.

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