

Apr 27 2024

NexGen Cloud Catalogue

Bhadale Group of Companies

Bhadale Group of Companies consists of:

1. Bhadale IT Pvt. Ltd is an IT and Computer Engineering subsidiary company

This division provides consultation in areas of cutting edge technologies, research outsourcing, and software consultation related to data center and related engineering practices

2. Bhadale Engineering Pvt. Ltd is a multi-engineering subsidiary company

Bhadale Group has aggressive programs in place to serve the niche market. Below is related to cloud ecosystems

Bhadale Group, Cloud department

This catalogue offers an overview of the Next Generation Cloud platform powered by Gen AI and quantum technologies available in the market. Here we discuss the key technologies used in quantum AI computing

Details of the above are put in the table below

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We have a large set of subcategories; few are mentioned below with details tabulated (use Gemini)

| No. | Cloud area | Use Cases | Our Offerings |
|-----|---|--|--|
| 1 | Planning of Quantum Al strategies, migrations and transformation roadmaps | Model-Driven Engineering for Quantum Artificial Intelligence(MDE4QAI) [1] Quantum AI Integration landscapes, and environments [2] Quantum AI initiatives, policies, governance, training programs and various strategies at enterprise and departmental levels | We offer planning and roadmaps based on various use cases and needs. Use of kits like, PlanQK (stands for Platform and Ecosystem for Quantum-Assisted Artificial Intelligence) We offer quantum AI tools, standards from IEEE, NIST, QIA and related industries We offer domain specific taxonomy, datasets, inference engines, frameworks and offer roadmaps for transformation of in-house and cloud platforms to meet the needs of Quantum AI. |
| 2 | Quantum –AI /ML based systems | Quantum algorithms for faster AI/ML convergence Feedback systems Control systems engineering Robotics Intelligent adaptive security preventing DDoS attacks and simulated attacks | We offer design and development of the algorithms that enable speedup of the ML, NN based learning curve, faster iterations and convergence to the required results We offer design, development and integration of quantum and AI/ML platforms, software that enable faster propagation and feedbacks for industrial grade systems and prevention of various attacks and threats using intelligent agents against cyber warfare, cyber crime and online thefts and fraud preventions. Tools for better defense and risk management |
| 3 | Quantum –AI based optimization | Faster and accurate industrial systems Better and faster medical decisions Faster and accurate fraud detection Better Banking and trading experiences | We offer reengineering, with maximum reuse of existing platform assets that help you avail the benefits from both paradigms in a economical way Our optimization solutions offer various advantages that help industries, society to reap the benefits that help Governments to gain better productivity with same investments |
| 4 | Quantum AI hardware units, accelerators, FPGA | Better integration of quantum AI software stack with the hardware units | We offer value added integration using partner tools for integration of quantum hardware with software for security, CPU-GPU communication, quantum protocols, quantum on board chips, programmable |

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| | | | chips like FPGA for your trials, integration with electro-mechanical, photonic, and optical fibers for quantum telecom band transmission, encoding and receptions. |
| 5 | Quantum Al based Security | Post Quantum cryptography (PQC) Wire and Wireless quantum based intelligent traffic, theft detection and effective management | We offer services for hardware and software upgradation from classical PKI, Digital certificates to newer PQC platform We offer support for the various types like: Lattice-based, Multivariate, Hash-based, Codebased, Supersingular elliptic curve isogeny, Symmetric key quantum resistance [3] |
| 6 | Quantum –AI based industrial solutions | Faster Drug discovery Better Diagnosis and treatment Personalization of general services Improved production Better agriculture management Better Climate control Better Living Research aid for alternate energies, mass security management, real time threat detections Real time monitoring for accident preventions Better and faster prediction of market, economies and external threats Better and more precise sensors and electronic gadgets DNA inspired computation Better supply chain management | We offer domain specific initiatives for the benefit of the stakeholders who seek faster processing, handling of large volumes of data, safer and better user experience in using the various industrial products. We offer solutions to 50+ industries that can leverage the benefits of quantum and AI technologies in a single stack. We offer solutions to projects of various sizes and have good framework that scales well for various user sizes, projects, and product range. We offer various plans, packages, and solutions that are comparably economical than market leaders and offer similar advantages. We have tie-ups with various universities, R&D centers, and partners that offer the overall advantages of a full stack services and helper tools that are available from the same source |
| 7 | Quantum Al Data science | Speed up of big data processing Near real time data management, transformations and intelligence | |

| Nex | Gen Cloud | Bhadale Group of Compa | anies |
|-----|----------------------------------|---|--|
| 11 | Quantum-Al for Space programs | Faster autonomous and intelligent navigation, telemetry and data transmissions Safe and secure payloads and data transfers among known systems Quantum radio transmissions Quantum sensors | |
| 12 | Quantum –AI custom solutions | Tailor made to meet your budget, time and mode of technology transfer | - 1 - - - - - - - |

References:

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