

QpiAI, established in 2019 by Nagendra Nagaraja, is headquartered in Bengaluru, India. The company focuses on Business/Productivity Software, with a strong emphasis on integrating Artificial Intelligence & Machine Learning, FinTech, and Life Sciences. Their platforms support the development and deployment of AI models, notably in quantum model generation, designed to work seamlessly with enterprise data systems for enhanced performance.

The company has successfully raised \$4.84 million in a single funding round, supported by notable investors like NASSCOM DeepTech Club and Shell E4. Currently, QpiAI employs about 36 individuals and has been active in intellectual property development, holding several pending patents in areas critical to AI and autonomous technologies.

QpiAI offers a diverse range of products that blend AI with quantum computing across various industries:

1. **QpiAI Pro**: A collaborative platform for creating and deploying AI models, tailored for use in enterprise data centers, capable of running on edge or cloud systems. It features a comprehensive library of base models and advanced tools for monitoring and observability.
2. **QpiAI Opt**: This product leverages deep advancements in quantum computing and mathematical optimization to address complex business challenges, providing optimal or near-optimal solutions in real-time. It is known for its modular and adaptable design, suitable for various industry needs.
3. **QpiAI ML**: Enhancing AI with quantum capabilities, this tool facilitates the development of quantum models and enables easy access to quantum hardware. It supports the creation of hybrid models and provides flexible workflows.
4. **QpiAI Quantum Hardware**: Incorporates a hybrid system combining quantum and classical processing units, enhancing quantum control and computing power.
5. **QpiAI Explorer**: This educational tool is designed for learning and developing ML & AI models, offering a platform for experimenting with quantum computing. It includes a range of tools to keep users up-to-date with the latest developments in AI and quantum technology.
6. **QpiAISense Platform**: A newly introduced platform designed for controlling qubits at room temperature, aiming to boost machine learning capabilities significantly in the future. It focuses on enhancing machine learning operations using innovative FPGA DSPs.

These products align with QpiAI's mission to deliver comprehensive AI and quantum technology solutions that offer both immediate and strategic advantages across multiple sectors such as healthcare, logistics, and finance.

QpiAI, headquartered in Bengaluru, India, is a company at the forefront of integrating artificial intelligence (AI) and quantum computing technologies. Founded in 2019 by Nagendra Nagaraja, QpiAI has rapidly established itself in the realms of AI, machine learning (ML), fintech, and life sciences, emphasizing the development and deployment of sophisticated AI models. Here's a comprehensive overview of the company's latest developments and initiatives:

Key Developments and Initiatives

1. **Global AI and Quantum Marketplace**:

- **Launch**: QpiAI has introduced a global marketplace aimed at enhancing the adoption of AI and quantum technologies across various sectors. This platform provides enterprises with tools to integrate these advanced technologies seamlessly into their operations.

2. **Joint Certification with IISc**:

- **Partnership**: In collaboration with the Indian Institute of Science (IISc), QpiAI offers certification programs in AI and quantum computing. These programs are designed to provide hands-on experience, aiming to upskill both students and professionals in cutting-edge technologies.
- **Courses**: These courses are available in multiple languages, including Hindi, to democratize access to AI and quantum education.

3. **AI System Generating Processor (ASGP)**:

- **Innovation**: QpiAI is developing the AI System Generating Processor (ASGP) to overcome the limitations of current quantum computers. This hybrid classical-quantum processor integrates up to one million qubits on a chip, which significantly enhances AI and ML model generation capabilities.

4. **Partnership with QuantroIOx**:

- **Collaboration**: QpiAI has signed an MoU with QuantroIOx to develop India's first 25-qubit quantum computing testbed. This partnership aims to establish a robust quantum computing ecosystem, leveraging expertise from both India and Finland.
- **Testbed**: The 25-qubit testbed will be deployed in Bengaluru, facilitating advanced quantum computing research and development.

5. **Upskilling Efforts**:

- **Initiative**: QpiAI has launched a large-scale AI and quantum upskilling program, offering affordable and self-paced learning modules through its QpiAI-Explorer software. This initiative targets millions of STEM students and professionals globally, aiming to bridge the skill gap in AI and quantum computing.

- **Impact**: The program expects to enroll around 250,000 participants within 6-12 months, significantly boosting the skilled workforce in these advanced technologies.

6. **Quantum Hardware Development**:

- **Technological Advancements**: QpiAI is working on semiconductor-based spin qubit technology and has plans to develop a 128-qubit quantum control chip. These advancements are projected to provide substantial performance improvements in optimization workloads.

- **Future Plans**: The company is also developing a 2048-qubit setup, which will facilitate a wide range of commercial applications in quantum computing.

7. **QpiAI Product Suite**:

- **QpiAI Pro**: A collaborative platform for creating and deploying AI models in enterprise data centers, capable of running on edge or cloud systems.

- **QpiAI Opt**: Utilizes quantum computing and mathematical optimization to solve complex business problems in real-time.

- **QpiAI ML**: Enhances AI with quantum capabilities, supporting the development of quantum models and hybrid workflows.

- **QpiAI Quantum Hardware**: Combines quantum and classical processing units to enhance computing power.

- **QpiAI Explorer**: An educational tool for learning and developing AI and ML models with quantum computing experiments.

- **QpiAISense Platform**: A platform for controlling qubits at room temperature, aiming to boost ML capabilities.

Strategic Vision and Market Impact

QpiAI's strategic vision revolves around democratizing access to AI and quantum computing education, fostering a robust ecosystem for these technologies, and driving innovation through strategic partnerships and advanced research. With substantial investments and a focus on scalable quantum computing solutions, QpiAI is positioned to make significant contributions to various industries, including healthcare, logistics, and finance.

By bridging the gap between advanced quantum technologies and practical applications, QpiAI aims to lead the next wave of technological innovation, offering both immediate and long-term strategic advantages to its users and partners.

New Developments at QpiAI

1. ****Partnership with BIS Innovation Hub****: QpiAI is collaborating with the BIS Innovation Hub on projects focusing on cybersecurity, green finance, and advanced data analytics. This initiative is part of BIS's 2024 work program, which includes 12 completed projects from 2023 and eight ongoing ones.
2. ****AI and Quantum Certification****: QpiAI has launched a new, affordable AI and quantum computing certification program with modular, self-paced learning. This initiative aims to upskill millions of STEM students and professionals globally, addressing the skill gap in these advanced fields.
3. ****Expansion and Quantum Ecosystem Development****: QpiAI is establishing India's first private quantum computing lab facility as part of a broader Quantum Park. This facility will support various subsidiaries focusing on superconductors, AI processors, and quantum data centers. The company is also expanding in Finland to foster European partnerships and strengthen the quantum ecosystem.
4. ****25-Qubit Quantum Computing Testbed****: In collaboration with QuantrolOx, QpiAI is developing a 25-qubit quantum computing testbed in Bengaluru. This project aims to enhance research and development in quantum technologies and is part of a broader initiative to establish a robust quantum computing infrastructure in India.

These efforts highlight QpiAI's commitment to advancing AI and quantum technologies, making significant contributions to various industries, and enhancing global technological capabilities.