

Bengaluru, April 09, 2025

[Mphasis](#), (BSE:526299; NSE: MPHASIS), a leading Information Technology (IT) solutions provider specialising in [cloud](#) and [cognitive](#) services, today announced the award of a U.S. patent on “System and method for optimized processing of information on quantum systems”. The newly issued patent outlines a pipeline to improve the scalability and performance of quantum machine learning (QML) on near-term quantum computing systems including quantum simulators.

This solution transforms high-dimensional classical input data into an enhanced feature space in quantum format. The feature space transformation ensures efficient mapping and preparation for quantum state loading, paving the way for improved quantum data processing and analysis. The optimal representation method for classical data on quantum systems minimizes the need for additional qubits for higher-dimensional data, handles large feature sets and high volumes of data, and ensures efficient convergence during quantum machine learning (QML) model training. QML leverages its ability to process high-dimensional, complex data, delivering solutions beyond the reach of classical high-performance computing hardware.

“Quantum Machine Learning (QML) is emerging as a transformative paradigm, enabling academia and industry to solve real-world AI challenges with unprecedented efficiency. This technology and the associated patent stand as a testament to our commitment to innovation and the advancement of next-generation technologies,” said **Srikumar Ramanathan, Chief Solutions Officer, Mphasis.**

About Mphasis

Mphasis’ purpose is to be the “*Driver in Driverless Car*” for Global Enterprises by applying next-generation design, architecture, and engineering services, to deliver scalable and sustainable software and technology solutions. Customer centricity is foundational to Mphasis and is reflected in the Mphasis’ [Front2Back™](#) Transformation approach. Front2Back™ uses the exponential power of cloud and cognitive to provide hyper-personalized ($C=X2C2^{TM}=1$) digital experience to clients and their end customers. Mphasis’ Service Transformation approach helps ‘shrink the core’ through the application of digital technologies across legacy environments within an enterprise, enabling businesses to stay ahead in a changing world. Mphasis’ core reference architectures and tools, speed and innovation with domain expertise and specialization, combined with an integrated sustainability and purpose-led approach across its operations and solutions are key to building strong relationships with marquee clients. Click [here](#) to know more. ([BSE: 526299](#); [NSE: MPHASIS](#))

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