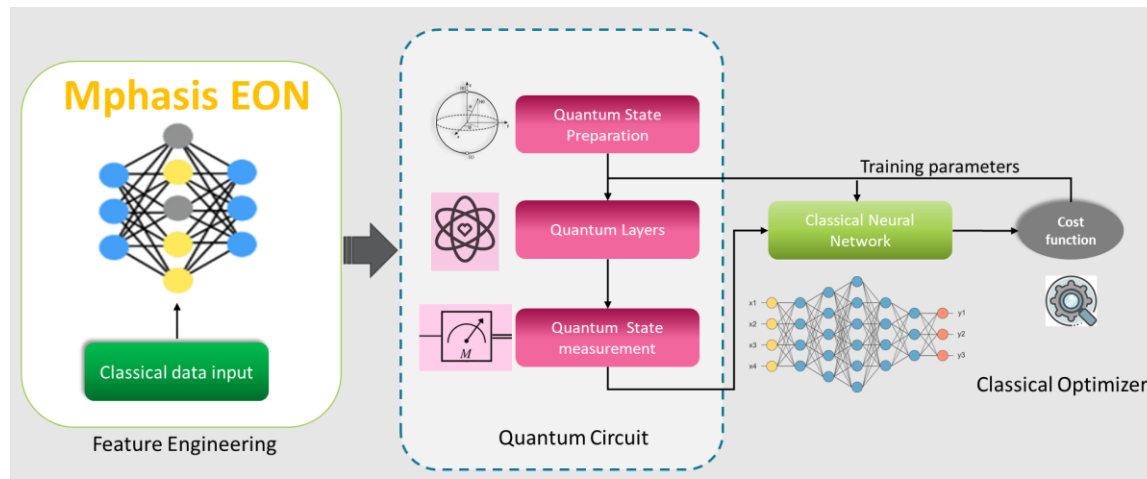# Mphasis EON (Energy Optimized Network)

Mphasis EON (Energy Optimized Network) is our patent pending, classical-quantum hybrid network, consisting of energy optimization, quantum circuit and deep neural network layers. Mphasis EON efficiently solves Machine learning problems using Quantum Computers by managing, preparing and learning from big data.

Mphasis EON

Classical data input

Feature Engineering

Quantum State Preparation

Quantum Layers

Quantum State measurement

Training parameters

Classical Neural Network

Cost function

Classical Optimizer

Quantum Circuit

Need fewer Qubits

Reduced information loss

Reduced training time

Quantum Computing Applications & Use Cases

Quantum Optimization
- Vehicle Routing Optimization
- Traffic Optimization
- Financial Services Portfolio optimization
- Social Network Analysis

Quantum Machine Learning
- Supply Chain Demand Prediction
- Computer vision, Image, Video, Voice analytics

Quantum Simulation & Modeling
- Cybersecurity
- Drug Development
- Human mobility modeling