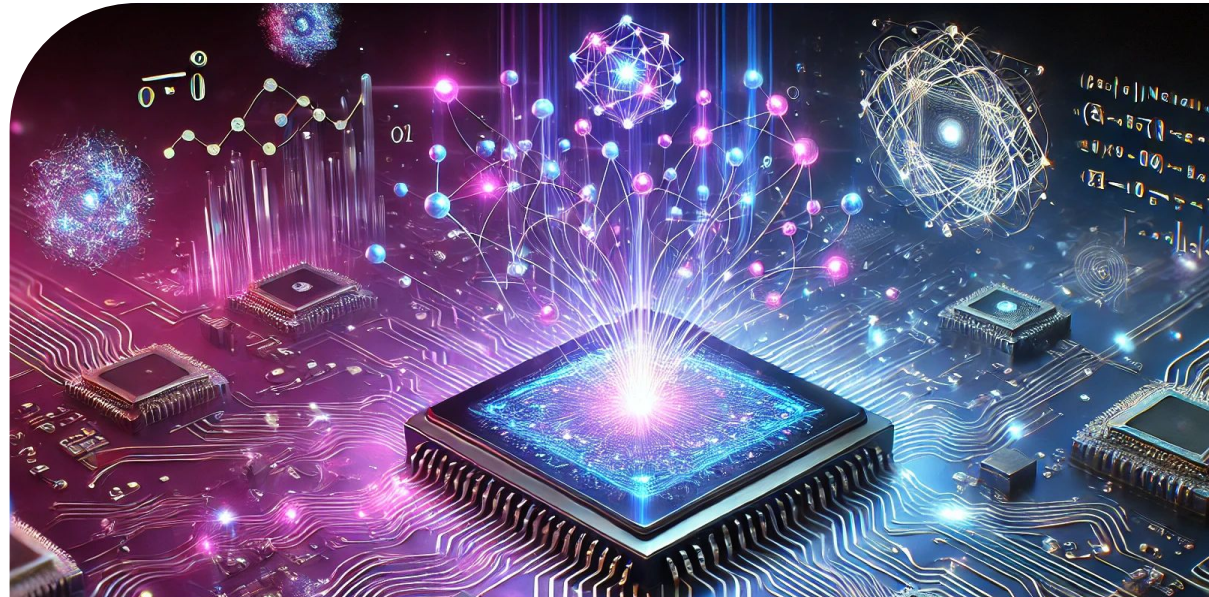# Automated Discovery and Optimization of Quantum Error Correction Codes Using ML

Course: IITM-DA6300(QML)
Faculty: Chandrashekar, Dhinakaran

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Progress

- Started learning Qiskit and PennyLane tutorials
- Understand stabilizer codes, Shor Code, Surface Code, Stabilizer Codes, and their mathematical foundations.
- **Fault-tolerant quantum computation**.

What's Next?

- Understand how ML and RL contribute to both the automatic discovery and optimization of Quantum Error Correction codes in this project?