Chapter 9

1. **Quantum Computing –** Quantum computers have the potential to break traditional encryption algorithms, posing a significant threat to cybersecurity. This technology will require AI and Machine Learning algorithms to adapt and develop new technologies to protect sensitive data.
2. **Blockchain -** Known primarily for its application in cryptocurrencies, blockchain offers a decentralized and tamper proof platform for secure transactions. Its distributed ledger system provides enhanced data integrity and transparency making it an attractive solution for cybersecurity applications**.**
3. **Internet of things –** with the rapid proliferation of Iot devices securing these interconnected devices has become a critical concern