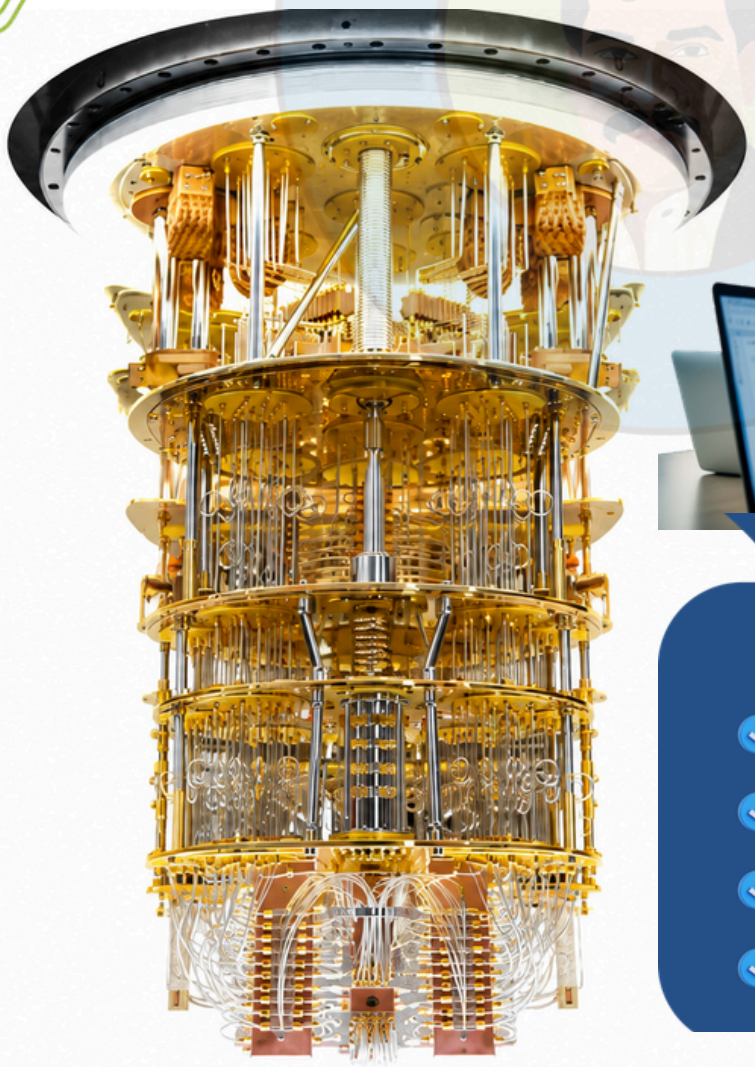
Coding MASTERS
Masters in Online Training

Real-Time
QUANTUM COMPUTING

Quantum Fundamentals, Qubits, Quantum Circuits, Quantum Algorithms, IBM Qiskit, Quantum Machine Learning & Applications



Why Choose Us?

- Mock Interviews
- Resume Building
- 1:1 Career Mentorship
- Industry-Ready Curriculum

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ABOUT TRAINER

Subba Raju Sir

TRANSFORMING PROFESSIONALS INTO AI INNOVATORS

CERTIFICATIONS & CREDENTIALS

- Microsoft CertifiedData Scientist & Co-pilot Engineer
- Google Certified Gen-AI Engineer
- Certified Pythonista Programmer
- Certified AI in Testing (ISTQB)
- Certified in GenAI & Agentic AI Engineering (Google, Microsoft, IITG)

SUBBA RAJU SIR

With over 25+yearsofITexperienceand an M.Sc. in Computer Science from Manipal University, Subba Raju Sir is a leading trainer in Data Science, Prompt Engineering, LLMs, Generative AI, Agentic AI, and Autonomous Testing (AI). He emphasizes hands- on, industry-oriented learning that bridges the gap between academic concepts and real-world applications.

SPECIALTIES & EXPERTISE:

- DATA SCIENCE, AI, AND GENERATIVE AI
- PROMPT ENGINEERING & AGENTIC AI SOLUTIONS
- PYTHON PROGRAMMING & AI TESTING
- CORPORATE & ACADEMIC TRAINING (250+ HOURS COURSES)
- MENTORING PROFESSIONALS FOR CAREER GROWTH IN AI

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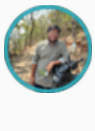
Reviews

(Quantum Computing Program)



Janumpally Anilkumar

★★★★★

I am currently learning Quantum Computing, and it has been an exciting learning experience so far. Subba Raju sir explains even complex quantum concepts in a clear and easy-to-understand way. The hands-on practice with Qiskit and quantum circuits is helping me build confidence and practical skills.

M

Manoj Kumar

★★★★★

The Quantum Computing course is well-structured and practical, covering everything from quantum fundamentals to quantum circuits, algorithms, and Qiskit in a simple and understandable way. Subba Raju sir's teaching style is clear and engaging, making complex quantum concepts easier to learn. It's a great course for building practical skills in quantum computing and emerging technologies.

U. Lm Yadav

★★★★★

I joined the Quantum Computing course with no prior knowledge of quantum technologies, but now I can confidently understand qubits, quantum gates, circuits, and Qiskit programming. Subba Raju sir makes the entire learning journey simple, practical, and engaging with clear explanations and hands-on sessions.

Vamshi Vinnie

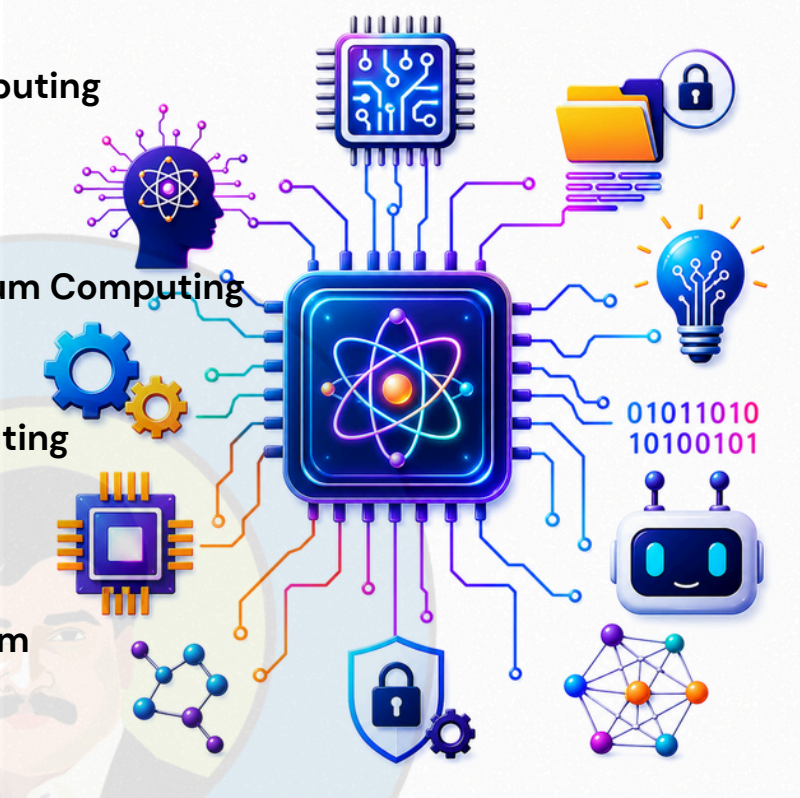
★★★★★

The best part of the Quantum Computing course is the hands-on practical exposure. We don't just learn quantum concepts—we work with quantum circuits, algorithms, Qiskit, and real-world applications that are highly relevant to emerging technologies. Subba Raju sir explains even complex quantum topics in a simple and easy-to-understand way.

Quantum Computing Course Curriculum

Module 1: Quantum Computing Foundations

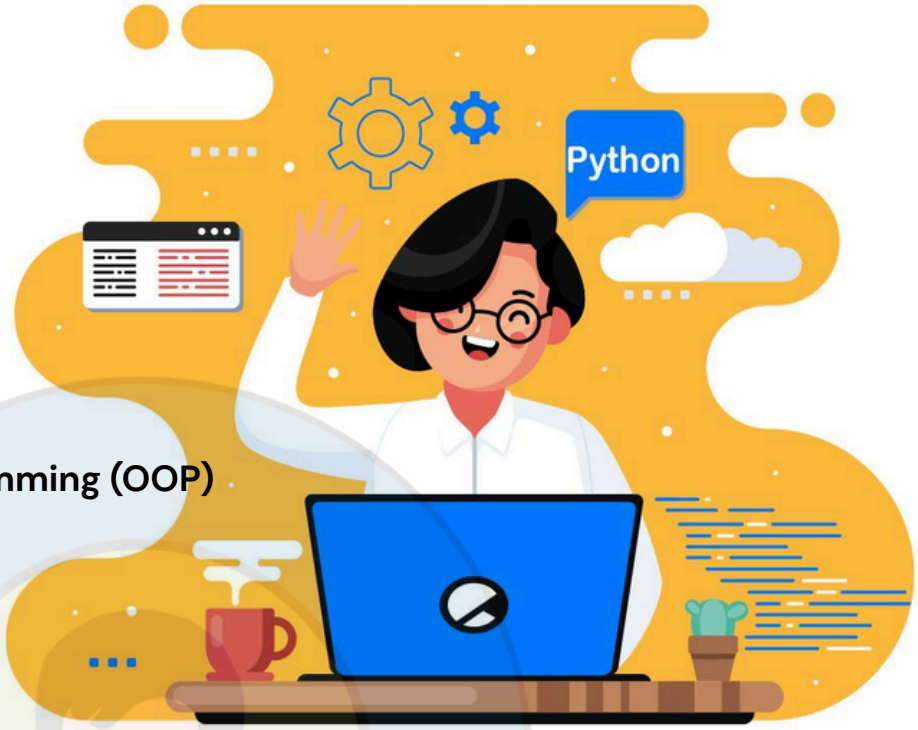
- Evolution of Computing
- Introduction to Quantum Computing
- Why Quantum Computing?
- Classical Computing vs Quantum Computing
  - Bits vs Qubits
- Limitations of Classical Computing
- Quantum Advantage
- Quantum Computing Ecosystem
- Industry Applications
- Career Opportunities



Module 2 : Python Programming for Quantum Computing

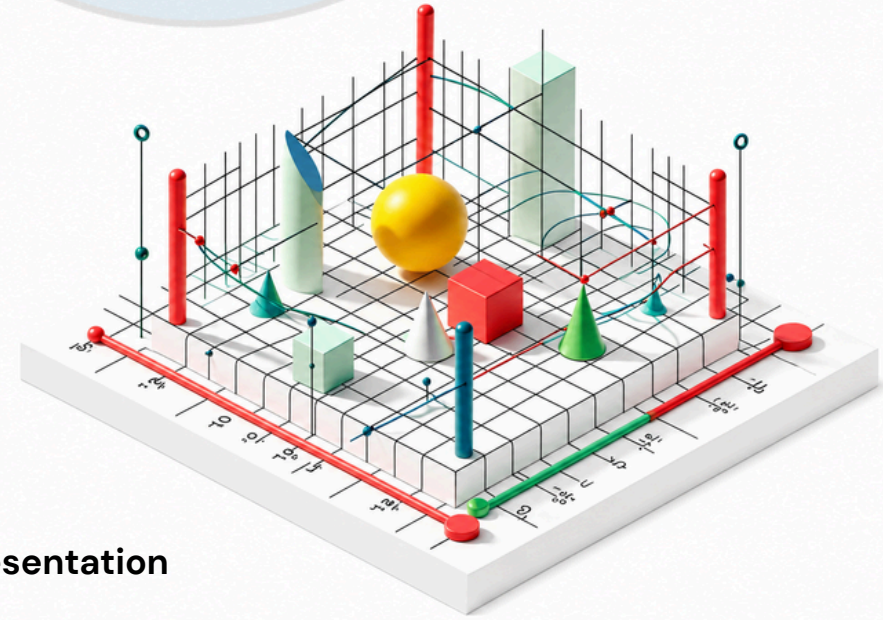
- Introduction to Python
- Variables & Data Types
- Operators

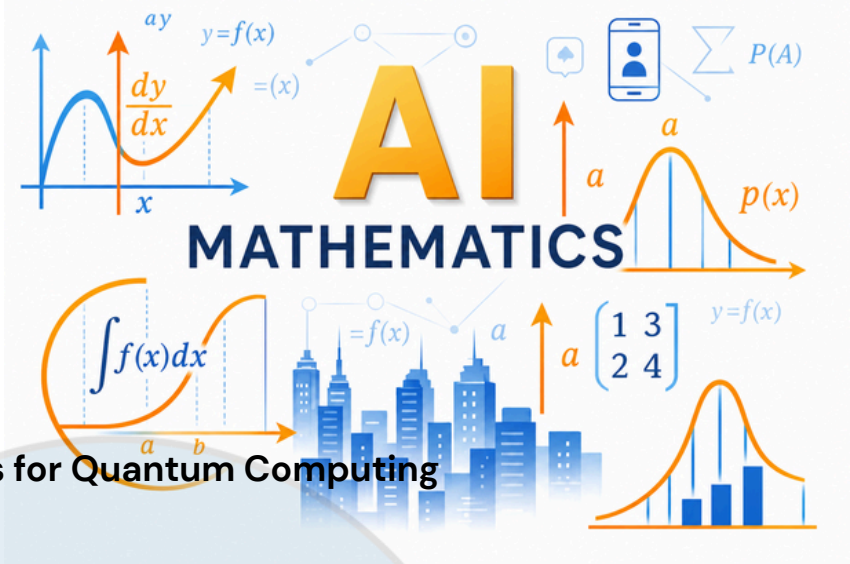
- Conditional Statements
- Loops
- Functions
- Collections
  - List
  - Tuple
  - Dictionary
  - Set
- Object-Oriented Programming (OOP)
- Exception Handling
- File Handling
- NumPy Fundamentals
- Python Practice Programs



Module 3 : Mathematics for Quantum Computing

- Complex Numbers
- Linear Algebra
  - Vectors
  - Matrices
  - Matrix Operations
  - Eigenvalues
  - Eigenvectors
- Probability
- Quantum State Representation

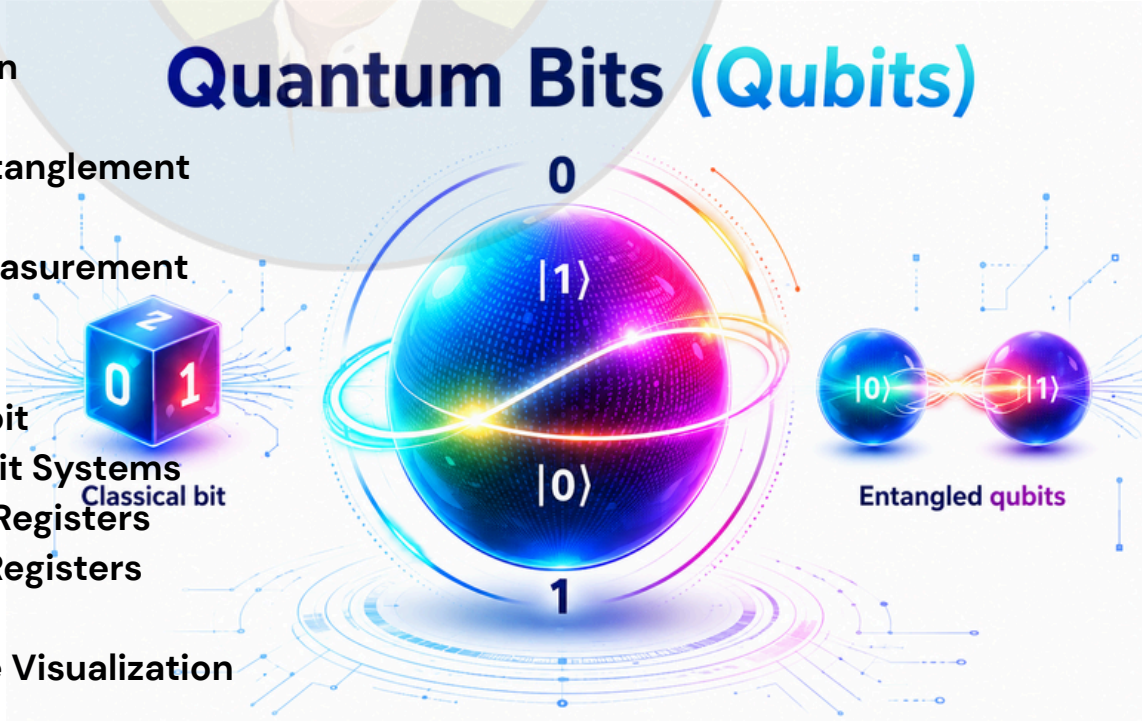




- Dirac (Bra-Ket) Notation
- Bloch Sphere
- Tensor Product
- Mathematical Foundations for Quantum Computing

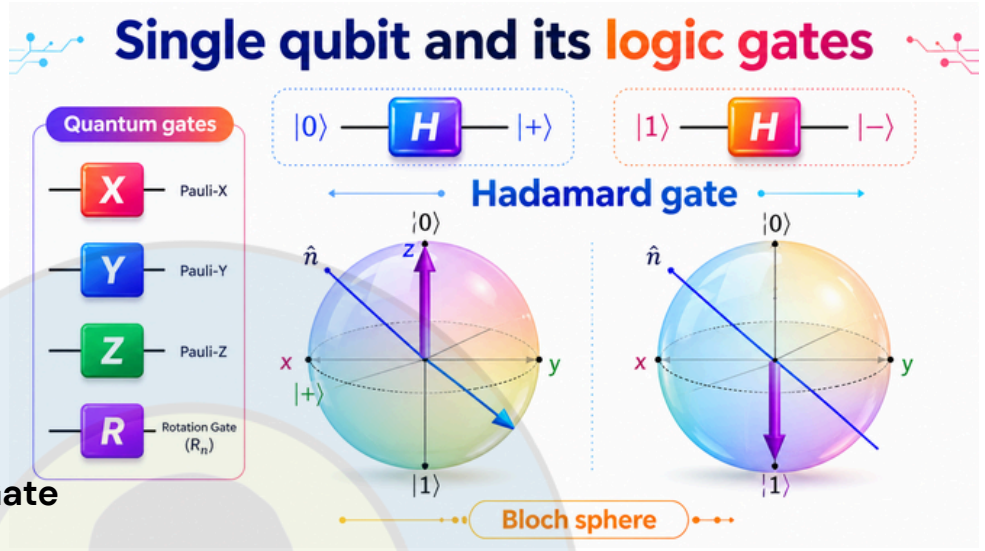
Module 4 : Quantum Mechanics & Qubit Fundamentals

- Fundamentals of Quantum Mechanics
- Quantum States
- Superposition
- Quantum Entanglement
- Quantum Measurement
- Qubits
  - Single Qubit
  - Multi-Qubit Systems
  - Quantum Registers
  - Classical Registers
- Bloch Sphere Visualization
- Real-World Qubit Technologies



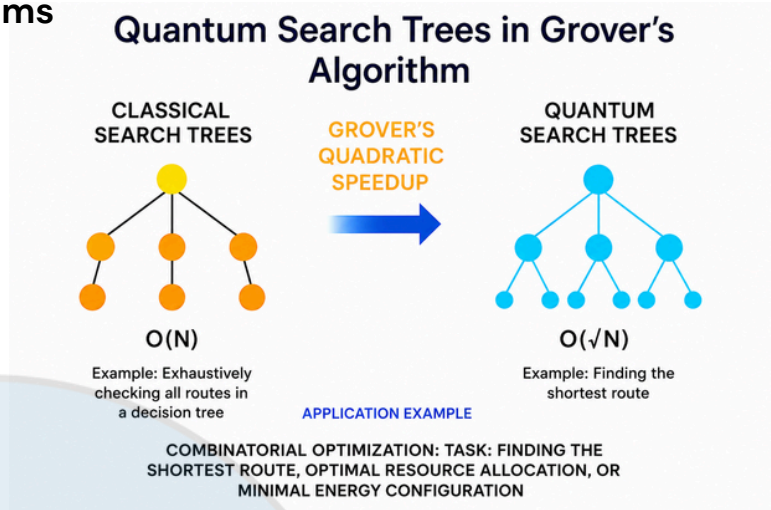
Module 5 : Quantum Gates, Circuits & IBM Qiskit

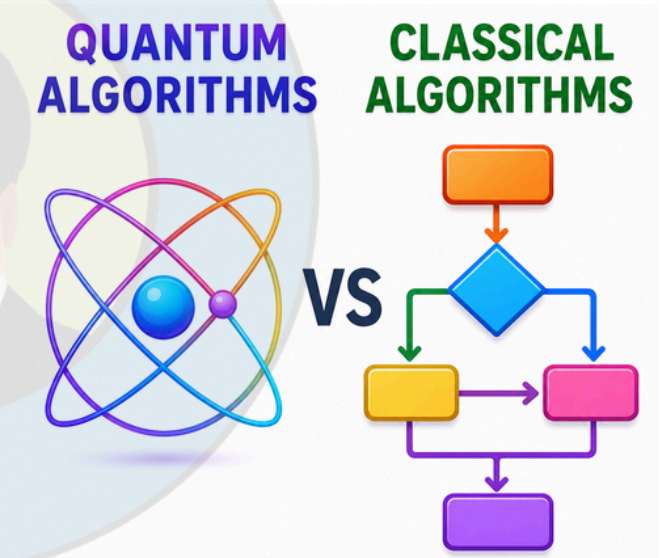
- Introduction to Quantum Gates
- Single-Qubit Gates
  - Identity (I)
  - Pauli-X Gate
  - Pauli-Y Gate
  - Pauli-Z Gate
  - Hadamard (H) Gate
  - Phase (S) Gate
  - T Gate
- Multi-Qubit Gates
  - CNOT Gate
  - Controlled-Z (CZ) Gate
  - SWAP Gate
  - Toffoli (CCX) Gate
- Bell States
- Quantum Circuit Design
- Circuit Measurement & Visualization
- Introduction to IBM Quantum Platform
- IBM Quantum Composer
- IBM Quantum Lab
- Qiskit Installation & Setup
- Building Quantum Circuits using Qiskit
- Executing Circuits on Simulator
- Running on IBM Quantum Hardware
- Hands-on Qiskit Practice



Module 6 : Quantum Algorithms

- Introduction to Quantum Algorithms
- Deutsch Algorithm
- Deutsch–Jozsa Algorithm
- Bernstein–Vazirani Algorithm
- Simon's Algorithm
- Grover's Search Algorithm
- Quantum Fourier Transform (QFT)
- Quantum Phase Estimation (QPE)
- Shor's Algorithm
- Algorithm Comparison
- Qiskit Implementation
- Hands-on Algorithm Demonstrations

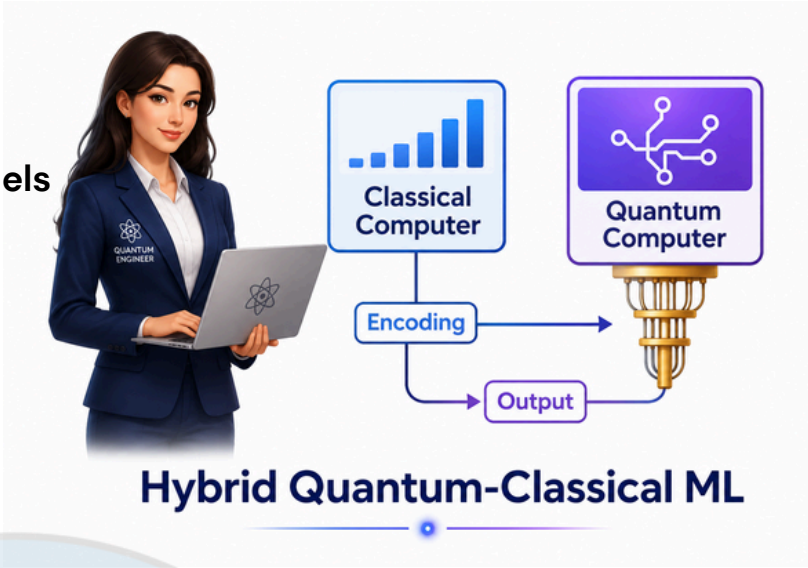




Module 7 : Quantum Machine Learning

- Introduction to Machine Learning
- Types of Machine Learning
  - Supervised Learning
  - Unsupervised Learning
  - Reinforcement Learning
- Introduction to Quantum Machine Learning
- Variational Quantum Circuits (VQC)

- Quantum Neural Networks (QNN)
- Quantum Kernel Methods
- Hybrid Classical–Quantum Models
- Qiskit Machine Learning
- PennyLane Framework
- Real-Time QML Applications
- Hands-on Quantum ML Projects



Module 8 : Quantum Applications & Cloud Platforms

- Quantum Cryptography
- Quantum Key Distribution (QKD)
- Healthcare & Drug Discovery
- Finance & Risk Analysis
- Cyber Security
- Supply Chain Optimization
- Scientific Research
- IBM Quantum Cloud
- Amazon Braket
- Microsoft Azure Quantum
- Google Quantum AI
- Real-World Quantum Computing Applications

Module 9 : Real-Time Projects, Career Preparation & Interview Readiness

- Mini Quantum Computing Projects
- Major Capstone Project
- Git & GitHub Portfolio
- Resume Building
- LinkedIn Profile Optimization
- IBM Quantum Certification Guidance
- Quantum Computing Interview Questions
- HR Interview Preparation
- Mock Interview Sessions
- Placement Assistance
- Career Roadmap

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MODULE :- 10

Ready for job

Build a strong resume, practice interviews, and get placement support to kickstart your career confidently.

LEARN THE SKILLS BUILD REAL PROJECTS. GET INTERVIEW READY

- ☐ RESUME BUILDING
- ☐ MOCK INTERVIEWS
- ☐ Q&A SESSIONS
- ☐ HR INTERVIEW QUESTIONS
- ✓ PLACEMENT ASSISTANCE

Contact Us

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At **Coding Masters**, our faculty team comprises talented and experienced professionals with several decades of real-world industry experience. Our teaching style is tailored to meet **industry requirements**, ensuring no wasted effort or opportunity for learners. We are dedicated to empowering aspiring professionals with the skills they need to excel in the ever-evolving tech landscape. Known for offering the best **AI-Powered Data Analytics training in Hyderabad**, Coding Masters blends innovation, hands-on learning, and industry
relevance.

Our mission is to bridge the gap between **academic knowledge and industry** expectations by providing high-quality training in **AI-Powered Data Anlytics** and more. Guided by experts like **Subba Raju Sir**, every student receives personalized mentorship and a transformative learning experience.