Quantum Computing

BROCHURE & CURRICULUM

2026

DEGEN DEN
ACADEMY

#StandOutFromTheCrowd

Quantum Computing (Qubits)

- Normal computers process **0** or **1** one by one. While Quantum computers process **0** and **1** at the same time.

-

Quantum computing is a <u>new way of computing</u> that uses the weird rules of **quantum physics**. A **<u>qubit</u>** is like a magic coin that can be 0, 1, or both at <u>**once**</u>! ✨

That is called
<u>superposition</u> 🌀

Quantum Computer:
A Million Times Faster Than Your Laptop!

| Aspect	Classical Computers	Quantum Computers
Problem Solving	One calculation at a time.	Multiple calculations at once.
Task Completion	Takes **years** for complex tasks.	Solves in **seconds**/**minutes**.
AI Models	Takes **weeks**/**months** to train AI models.	Trains models in **minutes**/**seconds**.
Cybersecurity	Breaks passwords in **years** (brute force)	Breaks **passwords** in seconds/minutes.

⚡ ULTRA-FAST SPEED

🧠 PROBLEM SOLVING

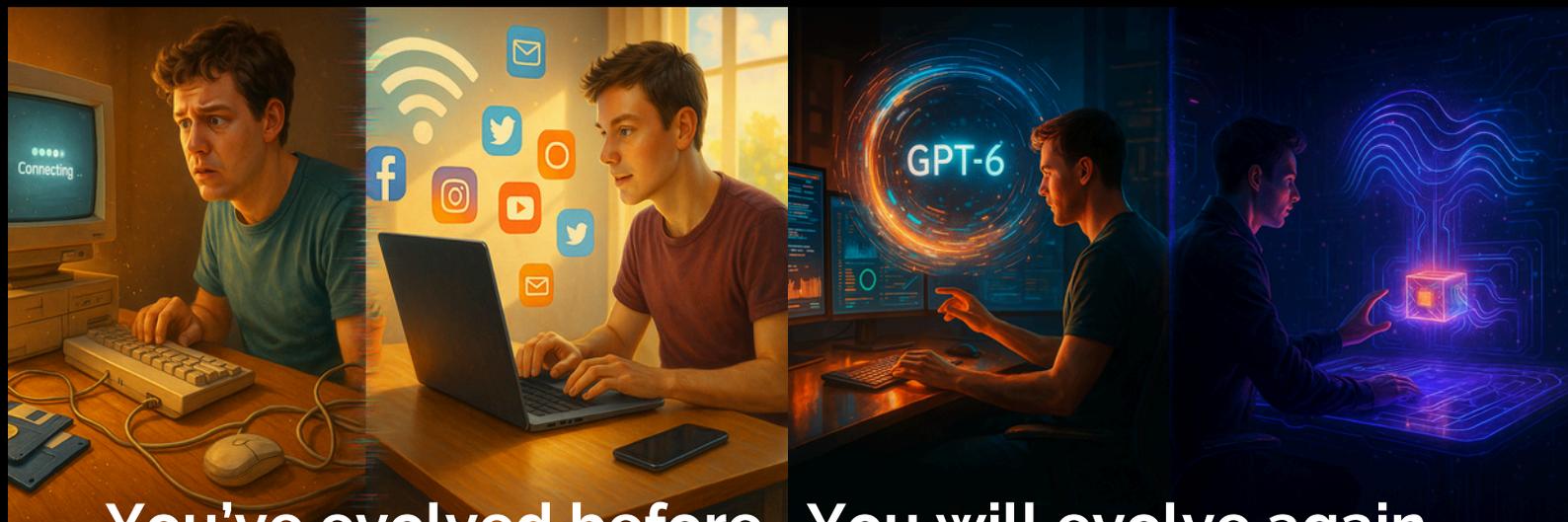@ ADVANCED TECH

🔋 FUTURE-READY
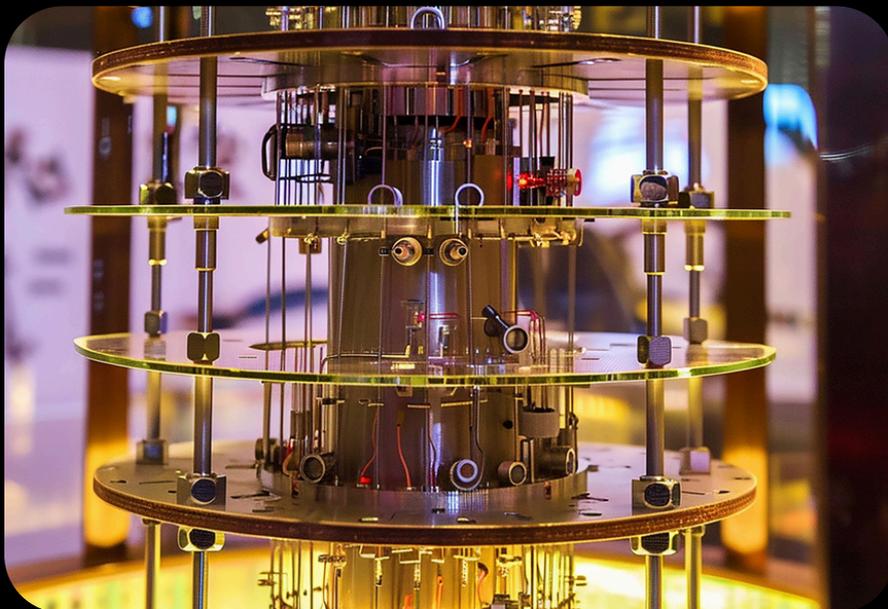
100 YEARS IN MINUTES

Why Should <u>You Care</u> ?

The world you know runs on <u>zeros</u> & <u>ones</u>...
but the next world won't.

You've <u>evolved</u> before. You will <u>evolve</u> again.

"THE NEXT BIG IDEAS WILL RUN ON QUANTUM COMPUTERS.
DO YOU WANT TO WATCH... OR DO YOU WANT TO BUILD?"

,,

- **Medicine**: Finding new cures faster than ever before.

- **Money**: Helping banks and businesses make smart choices.

- **AI**: Making smarter computers that learn quickly.

- **Cyber Security**: Keeping your data safe in a quantum world.

- **Climate**: Predicting storms and protecting the planet.

Quantum Computing
beats SOTA
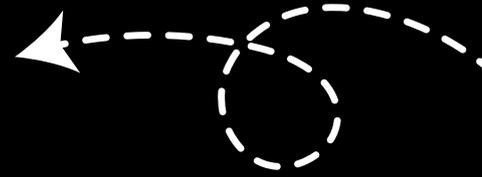
AI Becomes Smarter Faster

Quantum makes AI <u>faster</u>, sharper, and more <u>powerful</u> in less time.

New Threats, New Security

It can break <u>today's</u> encryption – and build tomorrow's.

1 Trillion Dollars Disruption

Massive <u>opportunities</u> in tech, jobs, and investment.

Solving Big Global Problems

Climate, healthcare, finance – quantum could <u>change</u> it all.

Quantum solves in <u>minutes</u>, what supercomputers takes <u>years</u>.

Our Quantum Platform

Degen Den Academy - Quantum Lab

Learn Quantum Computing with us.

| Classical Computing | Quantum Computing | Quantum Circuit Builder | Quantum Algorithms | Entanglement Playground |

Qubits: 3

Control: Qubit 1   Target: Qubit 1

| H | X | CNOT | CZ | SWAP | Measure | Reset |

|001⟩ |010⟩ |011⟩ |100⟩ |101⟩ |110⟩ |111⟩

|000⟩
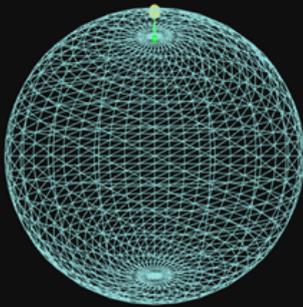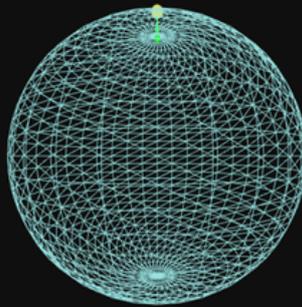
Qubit 1

Qubit 2

Qubit 3

HTTPS//QUANTUM.DEGENDEN.XYZ

🚀 **Learn Like a Pro** : Our lab is designed to beat Google & IBM at QC.

🔷 **30-Qubit Access** : Powerful enough for serious qubit simulations.

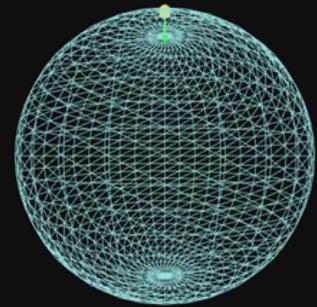⚡ **Run Experiments** : Run & Test Quantum Ideas & Algorithms.

🌀 **Visualize Magic** : Watch superposition & entanglement in real time.

💻 **Hands-On Sandbox:** Build and test your own experiments.

🧪 **Play, Fail, Learn** : Make mistakes safely, explore & improve quickly.

Qubits: [1 ▾]

Hadamard (H)

Pauli-X (NOT)

Controlled-NOT (CNOT)

Measure

Reset

$\lvert 0\rangle$ $\lvert 1\rangle$
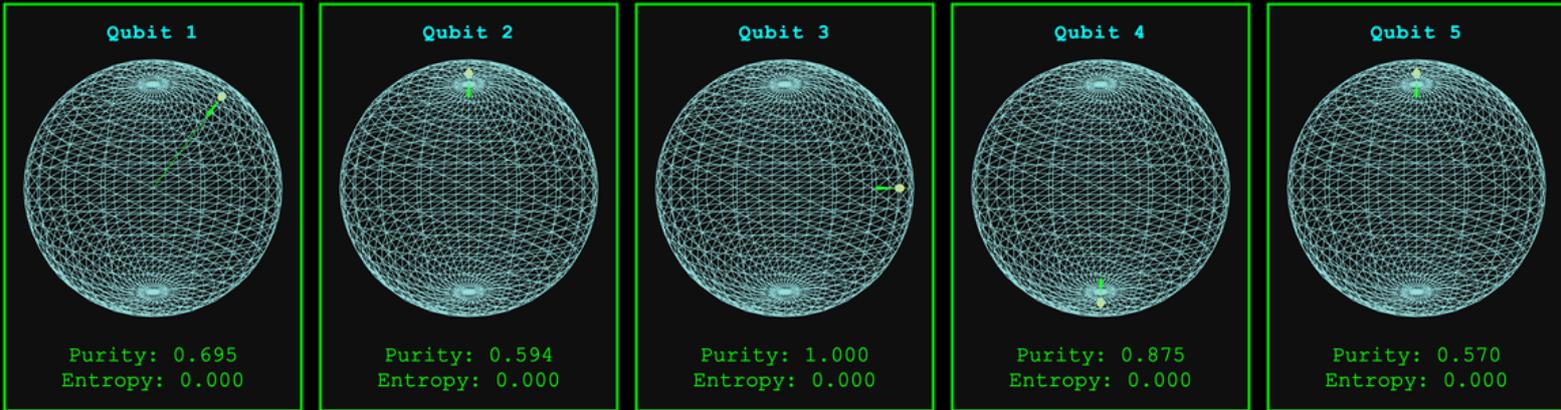
Qubit 1
Purity: 0.695
Entropy: 0.000

Qubit 2
Purity: 0.594
Entropy: 0.000

Qubit 3
Purity: 1.000
Entropy: 0.000

Qubit 4
Purity: 0.875
Entropy: 0.000
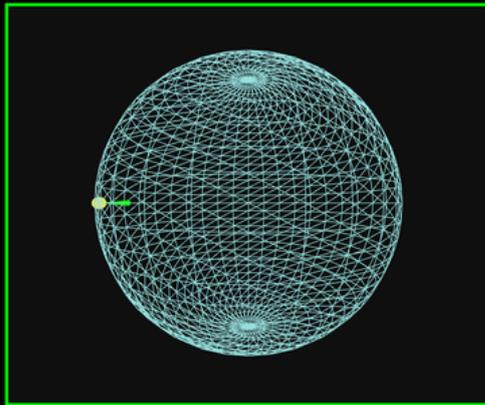
Qubit 5
Purity: 0.570
Entropy: 0.000

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Quantum Algorithms Sandbox

Explore quantum algorithms in action — watch gates and Bloch spheres come alive.

Qubits: [4 ▾] Algorithm: [Grover ▾] [Load Algorithm] [Step] [Run All] [Clear]

Algorithm: Toy Grover marking $\lvert 11..1\rangle$ with CZ.

H H t1	**H** H t2	**H** H t3	**H** H t4	**CZ** CZ c1 → t4	**H** H t1	**H** H t2
applied ✓	applied ✓	step →				

H H t3   **H** H t4

Tip: Click "Step" to apply gates one by one, Click "Run All" to run all gates.

Basis Probabilities

$\lvert 0000\rangle$	$\lvert 0001\rangle$	$\lvert 0010\rangle$	$\lvert 0011\rangle$	$\lvert 0100\rangle$	$\lvert 0101\rangle$	$\lvert 0110\rangle$	$\lvert 0111\rangle$	$\lvert 1000\rangle$	$\lvert 1001\rangle$	$\lvert 1010\rangle$	$\lvert 1011\rangle$	$\lvert 1100\rangle$	$\lvert 1101\rangle$
12.5%	12.5%	0.0%	0.0%	12.5%	12.5%	0.0%	0.0%	12.5%	12.5%	0.0%	0.0%	12.5%	12.5%

$\lvert 1110\rangle$ $\lvert 1111\rangle$
0.0%   0.0%
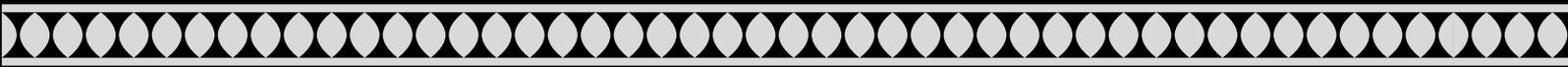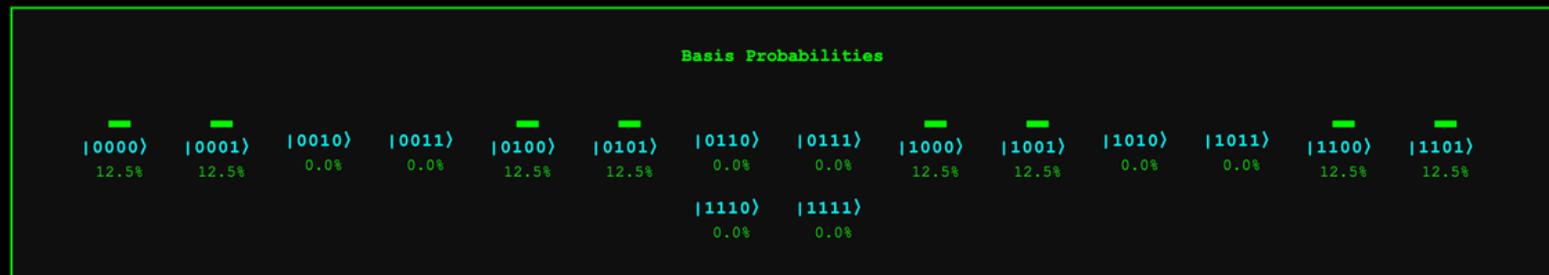
Who We Are

Degen Den Academy is the training & research hub of the Degen Den XYZ ecosystem, Where We focus on Deep Techs like AI, Cyber Security, Blockchain & Crypto and Quantum Computing.

- **3-Month training Programs:**
  - Learn fast with clear roadmaps, tailored for beginners.

- **Hands-On Learning:**
  - Build real-world skills through interactive classes & labs.

- **Deep Tech Focus:**
  - Master AI, Cybersecurity, Blockchain & Crypto as well.

- **Part of the Degen Den Cult:**
  - Connect with a group of people who think differently.
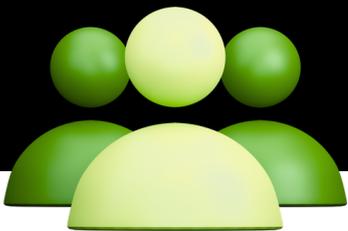
DEGEN DEN DAO
Funds, governs, and connects the entire ecosystem.

DEGEN DEN LABS
Builds innovative tools, platforms, and products.

DEGEN DEN ACADEMY
Offers 3-Month LIVE deep-tech training programs for beginners.

Our Training Program Overview

Our training program is perfect for **beginners** wanting to explore **Quantum Computing** from the **ground up**, with **step-by-step** guidance.

Duration
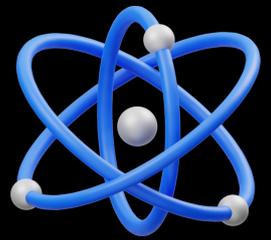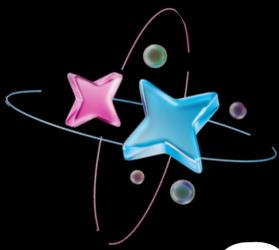2-3 Months

Mon-Fri
1 Hr Class

Class Mode
ONLINE

Class Type
LIVE Zoom

✅ Practical - Project - Based Roadmap

✅ Beginner Friendly with Zero Prerequisites

✅ Part of Degen Den XYZ EcoSystem

✅ Life Time Career Guidance & Support

The **4 Pillars** of Quantum Computing

1. Quantum Foundations

Become a Quantum-Literate

- ✅ Classical Computing VS Quantum Computing
- ✅ Qubits, Superposition & Entanglement
- ✅ Quantum Mathematics & Notations
- ✅ Quantum Gates, Circuits & Probabilities
- ✅ Quantum Algorithms (Grover, Shor, QFT, etc)
- ✅ Measurement & Quantum Noise
- ✅ Quantum Error Correction & Stability
- ✅ Quantum Randomness & Cryptography Basics
- ✅ Programming (Qiskit, Cirq, Degen Den QP)
- ✅ Mini Quantum Project: Build & Publish

2. Quantum AI

Become a Quantum-AI Innovator

- ✅ Intro to Quantum Machine Learning (QML)
- ✅ Quantum Data Encoding & Feature Maps
- ✅ Quantum Neural Networks (QNNs)
- ✅ Variational Quantum Algorithms (VQE, QAOA)
- ✅ Quantum Support Vector Machines (QSVM)
- ✅ Quantum Reinforcement Learning (QRL)
- ✅ Quantum LLMs - Toy Models & Simulation
- ✅ Hybrid Quantum-Classical AI Architectures
- ✅ Quantum AI Models in Python
- ✅ Quantum AI Project : Build Quantum AI Model

3. Quantum Cyber Security

Become a Quantum-Cyber Expert

- ✅ Intro to Quantum Cryptography & Security
- ✅ Quantum Key Distribution (QKD)
- ✅ Post-Quantum Cryptography (PQC) Concepts
- ✅ Quantum Random Number Generation (QRNG)
- ✅ Shor's Algorithm & Implications for Encryption
- ✅ Quantum-Resistant Algorithms & Protocols
- ✅ Quantum Network Security Concepts
- ✅ Quantum Authentication & Secure Channels
- ✅ Simulating Quantum Attacks & Defenses
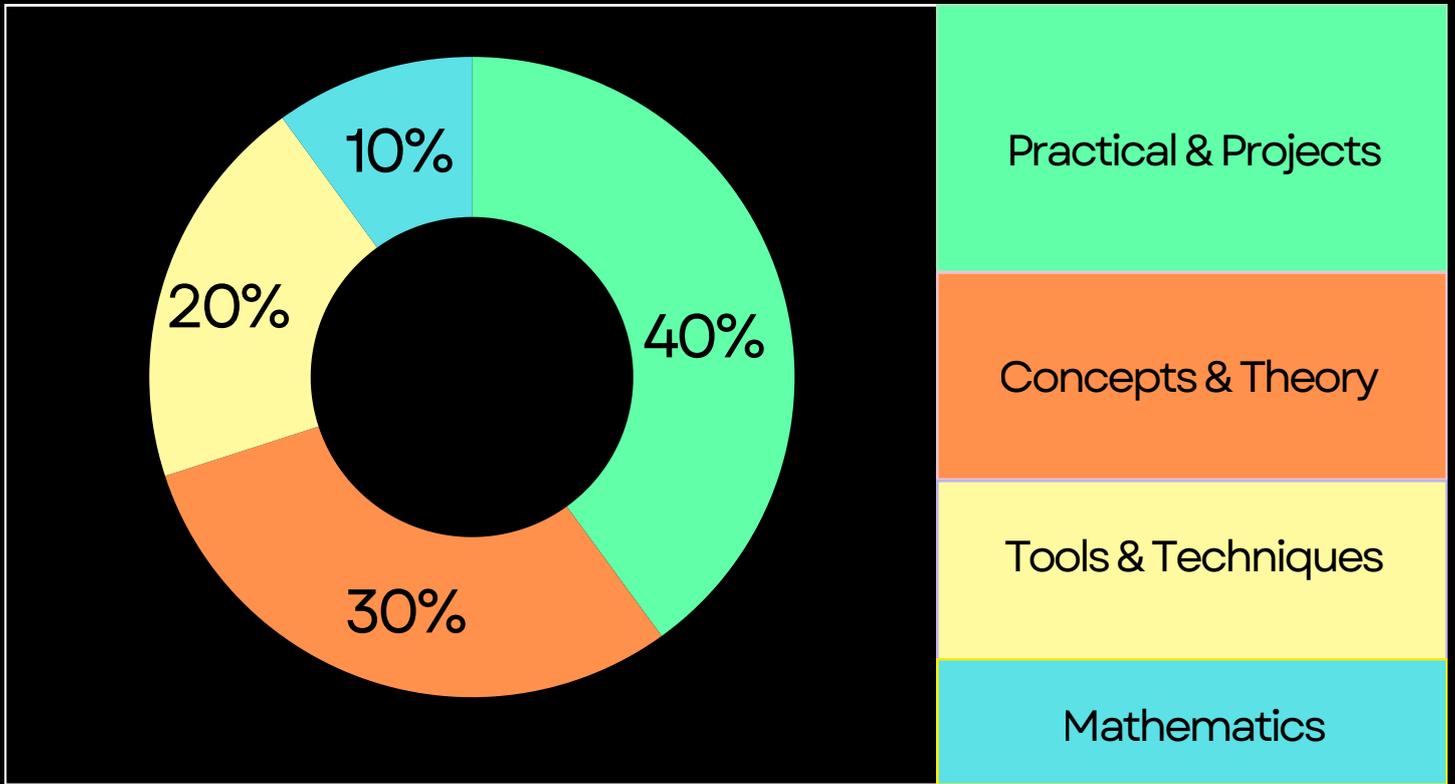- ✅ Quantum Security Experiments & Major Project

4. Degen Den's Special

Become a Quantum Innovator

- ✅ Quantum Internet & Communication
- ✅ Multi-Qubit Entanglism Experiments
- ✅ Dynamic multi-qubit manipulations
- ✅ Qubiverse Networks & Teleportation Flux
- ✅ Quantum Chaos & Exploratory Simulations
- ✅ Qryptoblock Prototypes & Generative Q-Art
- ✅ Quantum Gravity Thought Experiments
- ✅ Degen Den Quantum Simulation
- ✅ Degen Den Quantum Programming
- ✅ Community Research Challenges

Majority of our learning comes from hands-on practice. Over **40%** is dedicated to practical, real-world quantum projects.

40%	Practical & Projects
30%	Concepts & Theory
20%	Tools & Techniques
10%	Mathematics

All necessary tools and platforms to practice Quantum Computing will be taught.

Degen Den QUANTUM PLATFORM | **Qiskit** | **Cirq**

PENNYLANE | **Quantum Inspire** By QuTech | **QuTiP** Quantum Toolbox in Python

Torch Quantum | OPEN QKD | TensorFlow Quantum

AND MORE......

CERTIFICATE OF COMPLETION
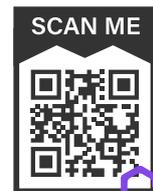
THIS CERTIFICATE IS PROUDLY PRESENTED TO

Your name here

has successfully completed the **Quantum Computing Program** with 4 projects, with a project score of **8.6** at Degen Den Academy.

Dr. Qubit
Approved Trainer

metamady.eth
Founder & CEO

CERTIFIED 2026

SCAN ME

NFT

NFT Certification

For **Above Average Performers** throughout the program, we offer a unique **Non-Fungible Token (NFT)** Certification After The Program.

This certification comes with **several benefits**:

- **Ownership :** You own a small percentage of our academy
- **Exclusive Rewards**: Incentives for exceptional performance.
- **Elite Community**: Become a member of Degen Den.
- **Tools Access**: Access to All tools Degen Den builds over time.
- **Support**: Continuous love & assistance for career success.

Why Should you Join <u>DEGEN DEN</u> ?

- **We're not for <u>everyone</u> – and that's the point.**
  - Degen Den is built for the <u>smart</u>, the curious, and the ones who <u>refuse</u> average.

- **<u>Dumb</u> people chase jobs. Smart people build skills**
  - We don't teach you to look for <u>work</u> – we train you to create <u>opportunity</u>. 0% Job Assistance. Period.

- **Because your <u>TIME</u> is your most valuable currency**
  - You <u>save years</u> of confusion by learning the right way, fast & <u>effective</u>.

- **All academies teach what <u>exists</u> on internet**
  - Degen Den Academy creates what's never been seen before on internet – because it's our <u>ART</u>.

Contact

DEGEN DEN
ACADEMY

📞 **+91 74 168 152 37**

🌐 **academy.degenden.xyz**

Registrations are open
Secure **your spot** for the **upcoming** batch today!

Referral Code

Join Our
Program Today!

Use Referral Code:
"QC2026DD"

Get a <u>discount</u> for them,
a <u>prize</u> for you!

You can't build AGI without knowing Quantum Computing