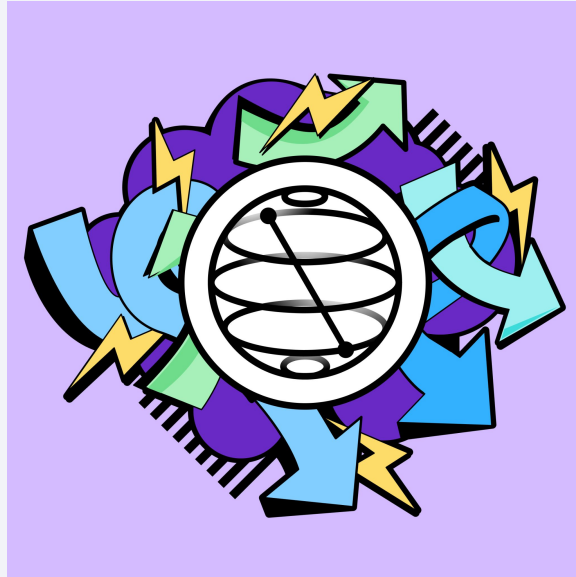




Qiskit | Fall Fest



QickStart

Qiskit Fall Fest NSUT 2022





QickStart

A Qiskit Powered Intro to Quantum Computing

Lectures

Workshops

Challenge

and more!

```
from qiskit import QuantumCircuit, execute
from qiskit import Aer, IBMQ
from qiskit.providers.aer.noise import NoiseModel

# Choose a real device to simulate from IBMQ provider
provider = IBMQ.load_account()
backend = provider.get_backend('ibmq_igz')
coupling_map = backend.configuration().coupling_map

# Generate an Aer noise model for device
noise_model = NoiseModel.from_backend(backend)
basis_gates = noise_model.basis_gates

# Generate 3-qubit QMZ state
qc = QuantumCircuit(3)
qc.cnot(0, 1)
qc.cnot(1, 2)
qc.measure([0, 1, 2], [0, 1, 2])

# Perform noisy simulation
backend = Aer.get_backend('qasm_simulator')
job = execute(qc, backend,
              coupling_map=coupling_map,
              noise_model=noise_model,
              basis_gates=basis_gates)
result = job.result()
print(result.get_counts(0))
```

Events Sponsor



Challenge Sponsor





FALL FEST 2022 SCHEDULE

3rd October	<ul style="list-style-type: none">• Inauguration of the event - Introduction about the fall fest, who we are, sponsors, etc.• Why Quantum? Intro to Quantum Computing concepts
4th October	<ul style="list-style-type: none">• Introduction to Linear Algebra and related Concepts
5th October	<ul style="list-style-type: none">• HOLIDAY Install qiskit locally and make account on IBMQ
6th October	<ul style="list-style-type: none">• Qiskit 101
7th October	<ul style="list-style-type: none">• Qiskit practice - Entangled States, Superdense Coding, Deutsch Josza
8th & 9th October	<ul style="list-style-type: none">• HOLIDAY Qiskit Problem Set + Labs 1 -4 on qiskit textbook
10th October	<ul style="list-style-type: none">• Introduction to Grover's Search
11th October	<ul style="list-style-type: none">• Implementing Grover's Algo + Intro ED to Challenge
12th October	<ul style="list-style-type: none">• Keynote Speaker Session + Challenge kickoff• Challenge

Qiskit | Fall Fest

Offline Lectures and Workshops

Announcements and Doubts over Discord

Online Challenge on qBraid

IBM Participation Certificates:

- Attend at least 3 workshops to achieve yours!

IBM Qiskit SWAG:

- Top-5 winners of the QickStart Challenge!

Other Surprises:

- Will be announced soon!

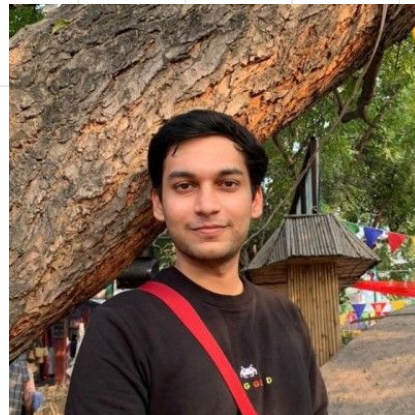
Meet the IBM Qiskit Advocates!

Vardaan Sahgal



M.Sc. Physics, NSUT, Batch of '23

Harshit Gupta

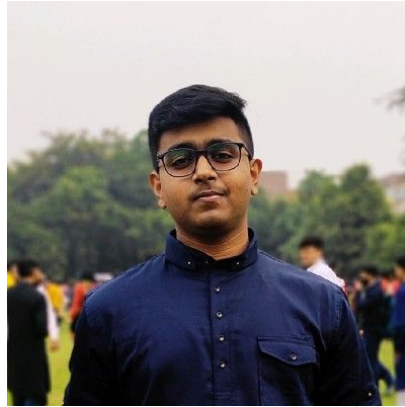


BTech CSE, NSUT, Batch of '23

IOSD - Meet the Team!



Rinav Gupta
President



Harshit Mittal
Vice President



Madhur Ahuja
President



Connect with us!



QickStart Discord server:

<https://discord.gg/aMB2gYbz6w>

QickStart official repository:

<https://github.com/TheGupta2012/NSUT-Qiskit-Fall-Fest>

Qiskit Slack channel:

<https://ibm.co/joinqiskitslack>

