



Digital Lync

EDUCATION - INNOVATION - INCUBATION

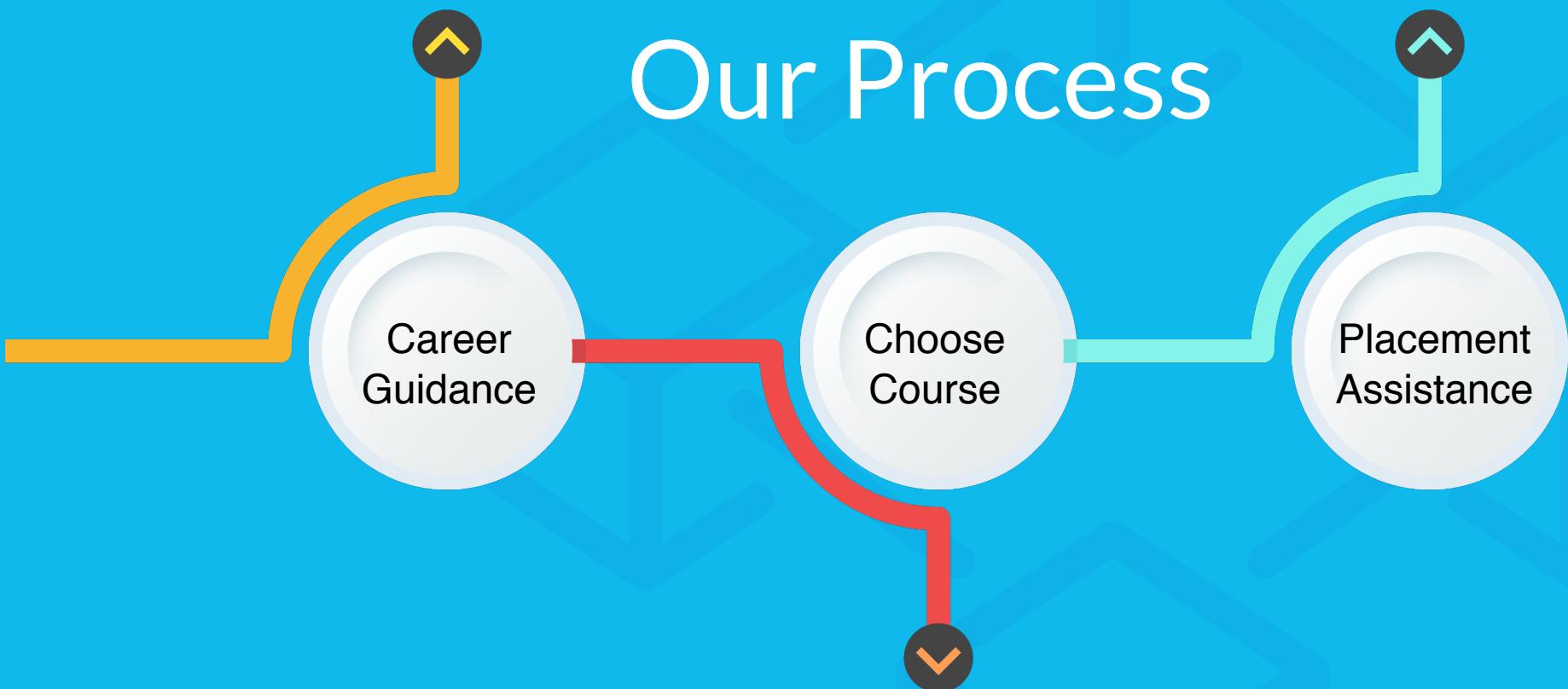
Welcome To Digital Lync

Digital Lync empowers technology seekers by providing world class infrastructure, best quality project based technology education, Research and Development of great products and supports enthusiastic new entrepreneurs.

Expert counsellor advises to match your skills with trending technologies in the industry.

We are a link to your awesome future! We recognize, enhance and present your skills to the coolest companies.

Our Process



You pick and we guide.
We mentor you all along and
help you throughout
your learning process.

www.digital-lync.com

BlockChain

To be a pioneer in the digital world, one has to learn trust worthy technology for storing data in a digital way. Blockchain is a latest innovation in the sphere of digital technology. Tasks in Blockchain are performed as Transactions for which Cryptocurrencies are used.

DURATION: 40+ HOURS

WHAT YOU NEED TO KNOW

- Programming knowledge
- Data structures
- NodeJS will be an added advantage

Why BlockChain

Blockchain is a network. It is a technology that enables moving digital coins or assets from one individual to another individual. It is recommended to create a common language across business and technology. It is a decentralized and distributed network. By allowing digital information to be distributed but not copied, Blockchain technology created the backbone of a new type of internet.

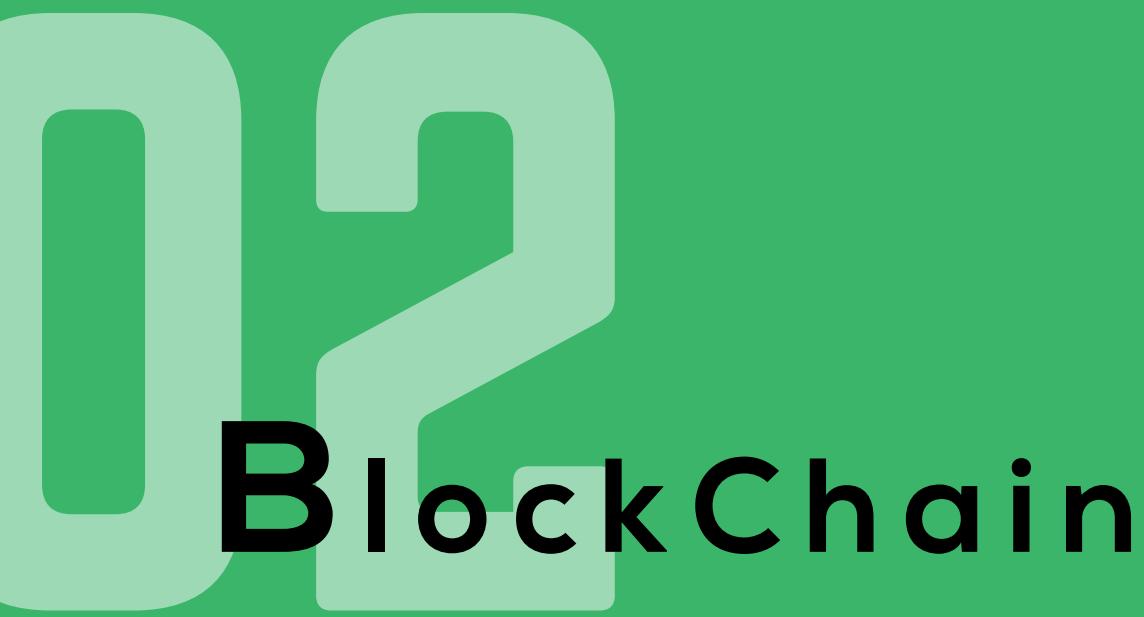
Blockchain, is a continuously growing list of records, called Blocks, which are linked and secured using cryptography. Each Block typically contains a cryptographic hash of the previous block.

CAREER

OPPORTUNITIES

Blockchain Developer
Blockchain Engineer





Curriculum

MODULE 1:

BASICS OF BLOCKCHAIN

What is blockchain

Centralized vs Decentralized vs Distributed systems

What are digital ledgers

What is a bitcoin and types of cryptocurrencies

Difference between bitcoin and blockchain

What is Mining and transaction validation

What is nonce

Transaction flow of blockchain website

Proof of Work

MODULE 2:

CRYPTOGRAPHY IN BLOCKCHAIN

What is hashing and digital signatures

Types of cryptographic algorithms.

What is dual-key encryption (public & private encryption)

Usage of cryptography in blockchain and transaction validation

What are merkle trees and root

Creation of block hash

MODULE 3: TYPES OF BLOCKCHAIN

- Public blockchains and examples
- Private blockchains and examples
- Federated vs Consortium blockchains and examples
- Difference between permissioned vs permissionless blockchain

MODULE 4: NODE-JS BASICS (OPTIONAL FOR JAVASCRIPT DEVELOPERS)

MODULE 5: ETHEREUM

- What is Ethereum
- Ethereum architecture
- Introduction to dapps and examples
- What are smart contracts
- Introduction to solidity
- Difference between ethereum and bitcoin blockchains
- Swarm vs IPFS
- Web3 js introduction, proof of stake

MODULE 6: PRIVATE BLOCKCHAIN

- Difference between public,private,test networks
- Creation and explanation of genesis file
- Downloading and explanation of geth
- Web3js commands and usage in geth
- Creation of private blockchain using geth
- Connecting nodes in blockchain (temporary and permanent)
- Connecting nodes in same, different networks
- Connecting nodes using cloud and localhost
- Accounts creation, transactions and mining in node.

MODULE 7: SOLIDITY

- Creating first smart contract
- Remix IDE, Metamask, Mist browser
- Deploying in private blockchain
- Attaching an user interface
- Mini Project using solidity

MODULE 8: TRUFFLE FRAMEWORK

- Truffle introduction and unboxing
- Truffle commands and usage
- Coding explanation using truffle + solidity

MODULE 9: HYPER LEDGERS

- Introduction to hyper ledgers
- Minor Application using hyper ledgers

MODULE 10: HYPER LEDGERS

- What are Multi Chain and uses.
- What are Hybrid Blockchains
- Types of wallets to store cryptocurrencies
- Introduction to DAO/DAC
- What is Segwit

BlockChain

Project: 1

CREATION OF BLOCKCHAIN WALLET

This application enables creation of wallet based on Blockchain technology that can store Cryptocurrency using APIs. It enables transactions between wallets using Cryptocurrency.

Topics Covered in Project 1

- Concepts of Bitcoin and Mining
- Transactions flow and Merkle Trees
- Hashing and Digital Signatures
- De-centralised and Distributed Networks

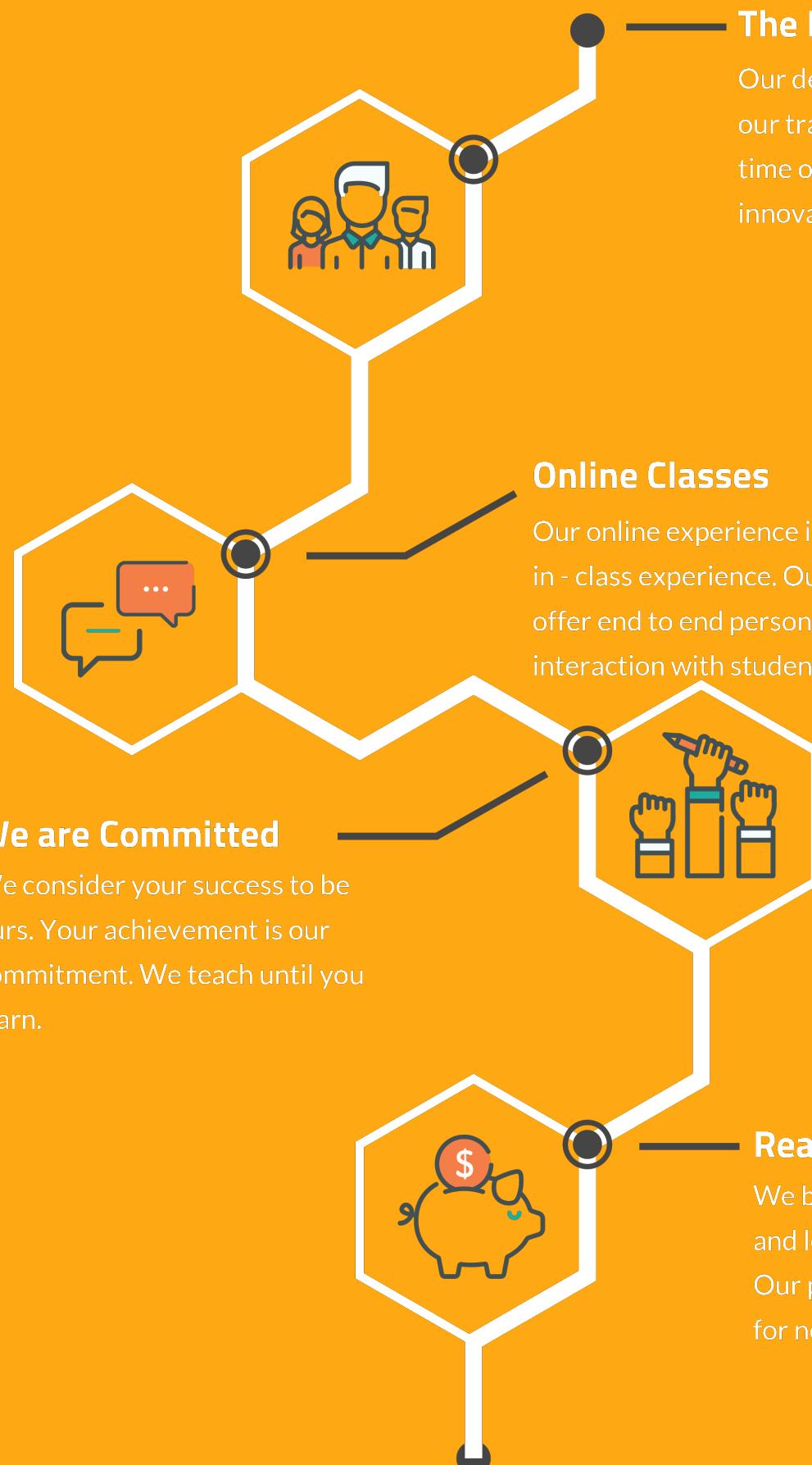
Project: 2

BLOCKCHAIN CERTIFICATION IN PRIVATE BLOCKCHAIN

This application enables us to create of our own Blockchain Certificate using private blockchains, Truffle frame work, Node js.

04 Why

Digital Lync

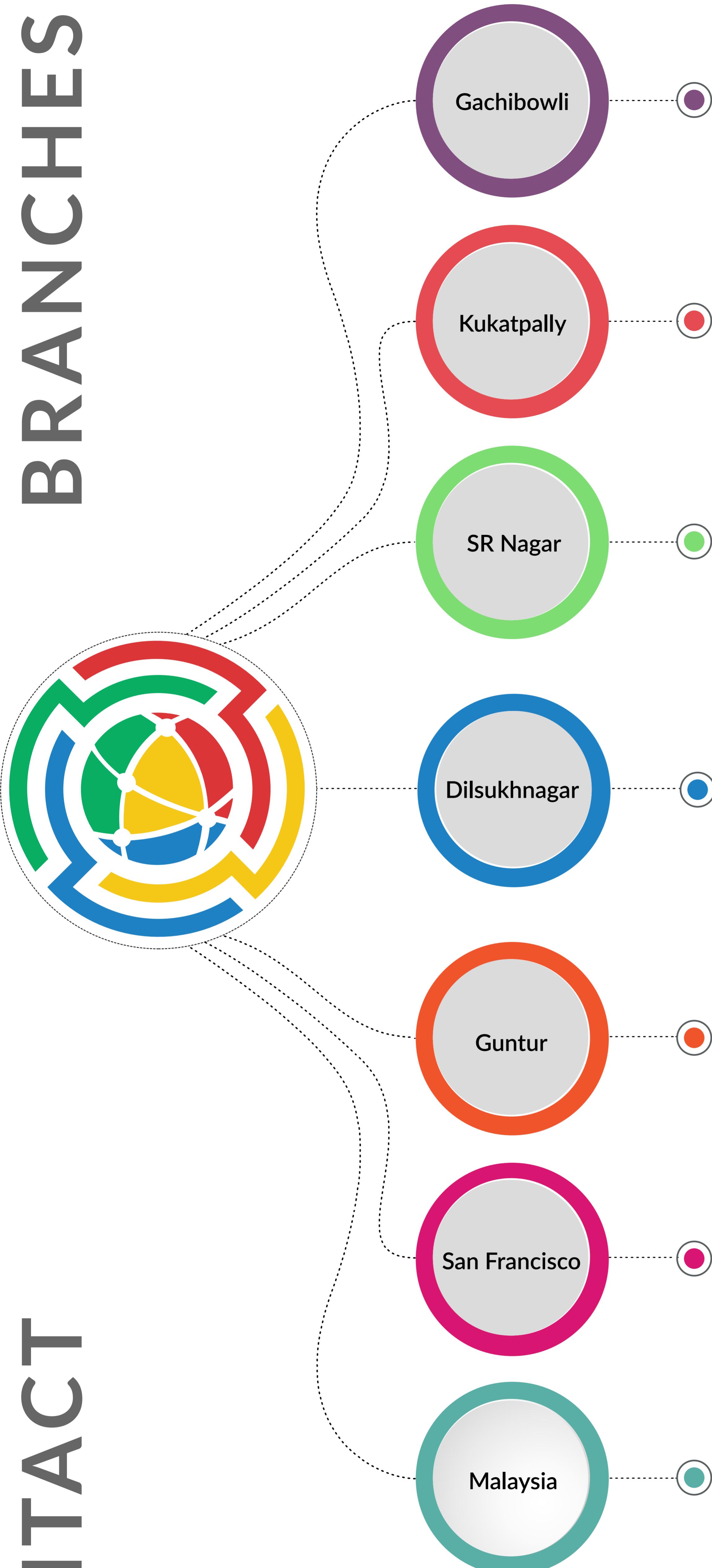


Trending

in
Technology

- Python
- Devops
- AWS
- Azure (Cloud Computing)
- Data Sciences
- Deep Learning
- Artificial Intelligence
- Data Analysis
- Big Data
- FullStack
- Digital Marketing
- Mobile Development
- Blockchain
- Visual Design
- Game Development
- IOT
- Cyber Security

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