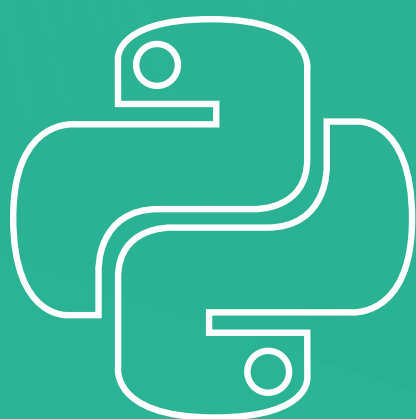


# Python



Python



**Digital Lync**

EDUCATION - INNOVATION - INCUBATION

# 01

## Welcome To

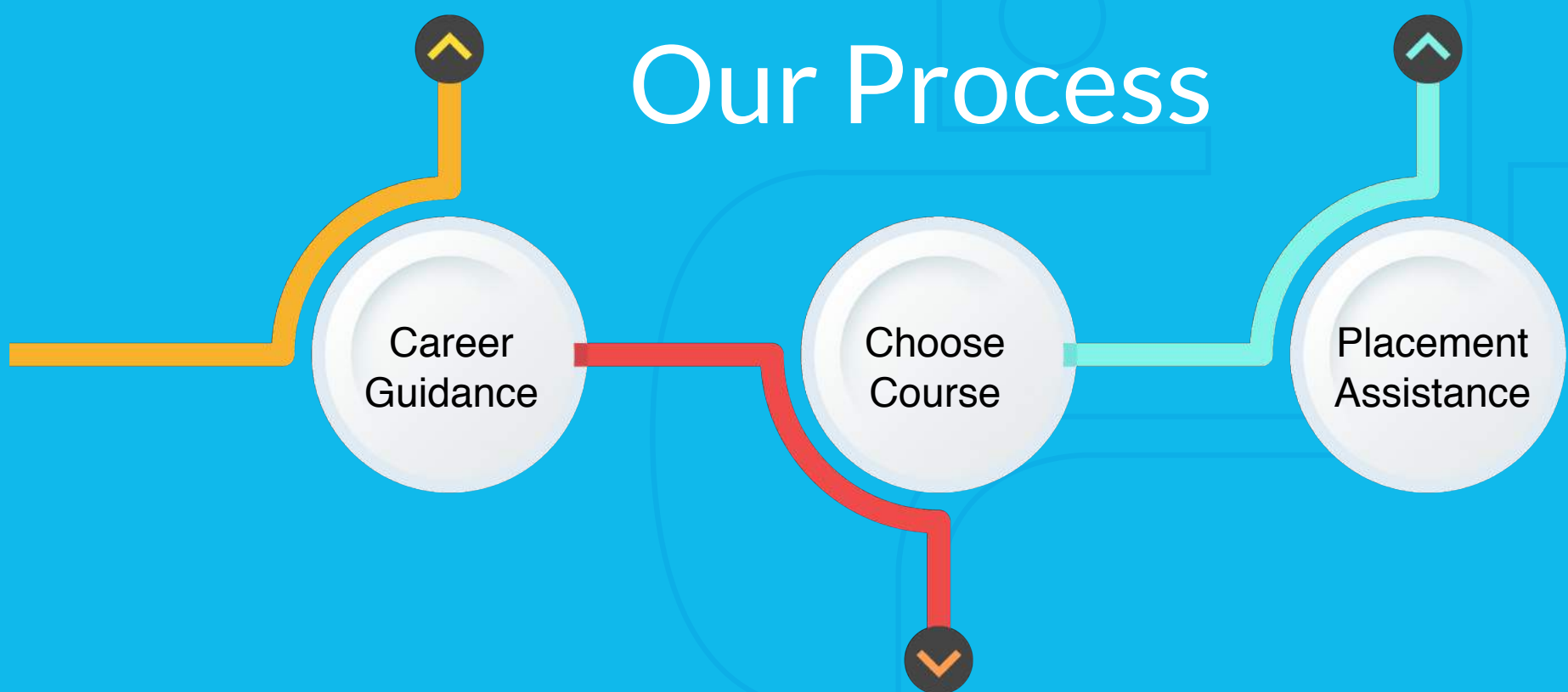
# Digital Lync

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.

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# Python

Python is a high level programming language which has integrated dynamic semantics to support application and web development.

**DURATION: 35+ HOURS**

## WHAT YOU NEED TO KNOW

- Basic knowledge of Computer Science

## Why Python?

Python is the most preferred programming language in Data Science. It tops the popularity list and is the most desired skill set.

Python is easy, fully functional and versatile language which can be used to make games, conduct data analysis, control a robot and hardwares. It is even used to create GUIs and websites.

## CAREER

### OPPORTUNITIES

Python Developer  
Web Developer



# 02 Python Curriculum

## MODULE 1: INTRODUCTION

- Motivation & Applicability to various domains
- Installation & Setting up path
- Interactive shells & IDE's
- Keywords and Identifiers

## MODULE 2: VARIABLES AND DATA TYPES

- Numbers
- Operators
- Reading data from keyboard
- String Manipulation
- Accessing Strings
- Basic Operations
- String Slices

## MODULE 3: CONDITIONAL STATEMENTS

- If - else
- If-elif- else
- Nested if-else

## MODULE 4: CONTROL FLOW

- For
- While
- Nested loops
- Break
- Continue
- Pass

## MODULE 5: LISTS

- Introduction
- Accessing List
- Operations
- List Comprehension
- Function and Methods

## MODULE 6: CONTROL FLOW

- Introduction
- Accessing Tuples
- Operations
- Working & Tuple Comprehension
- Functions and Methods

## MODULE 7: DICTIONARIES

- Introduction
- Accessing values in Dictionaries
- Working with Dictionaries
- Properties
- Functions and Methods

## MODULE 8 : SETS

- Introduction
- Accessing values in Sets
- Working with Sets
- Functions and Methods

## MODULE 9 : FUNCTIONS

- Defining a function
- Calling a function
- Types of functions
- Function Arguments
- Anonymous functions

## MODULE 10 : MODULES

- Importing module
- Math module
- Random module
- Packages

## MODULE 11 : INPUT AND OUTPUT

- Output formatting
- File Operations
- File Functions

## MODULE 12 : OOPS CONCEPT

- Classes and Objects
- Types of Methods
- Inheritance
- Polymorphism
- Data hiding (Abstraction)
- Encapsulation

## MODULE 13 : EXCEPTION HANDLING

- Except clause
- Try & finally clause
- User Defined Exceptions

## MODULE 14 : DATABASE PROGRAMMING

- Introduction
- Connections
- Working with queries

## MODULE 15 : DEV TOOLS

- Introduction to Git basics
- Virtual Environments
- Managing Packages with Pip

## MODULE 16 : REGULAR EXPRESSIONS

- Need & Necessity of RE
- Patterns
- Matching & Searching
- Grouping Operations
- Modifiers

## MODULE 17 : MULTITHREADING

- Thread
- Starting a thread
- Threading module
- Threads Multithreaded
- Priority Queue

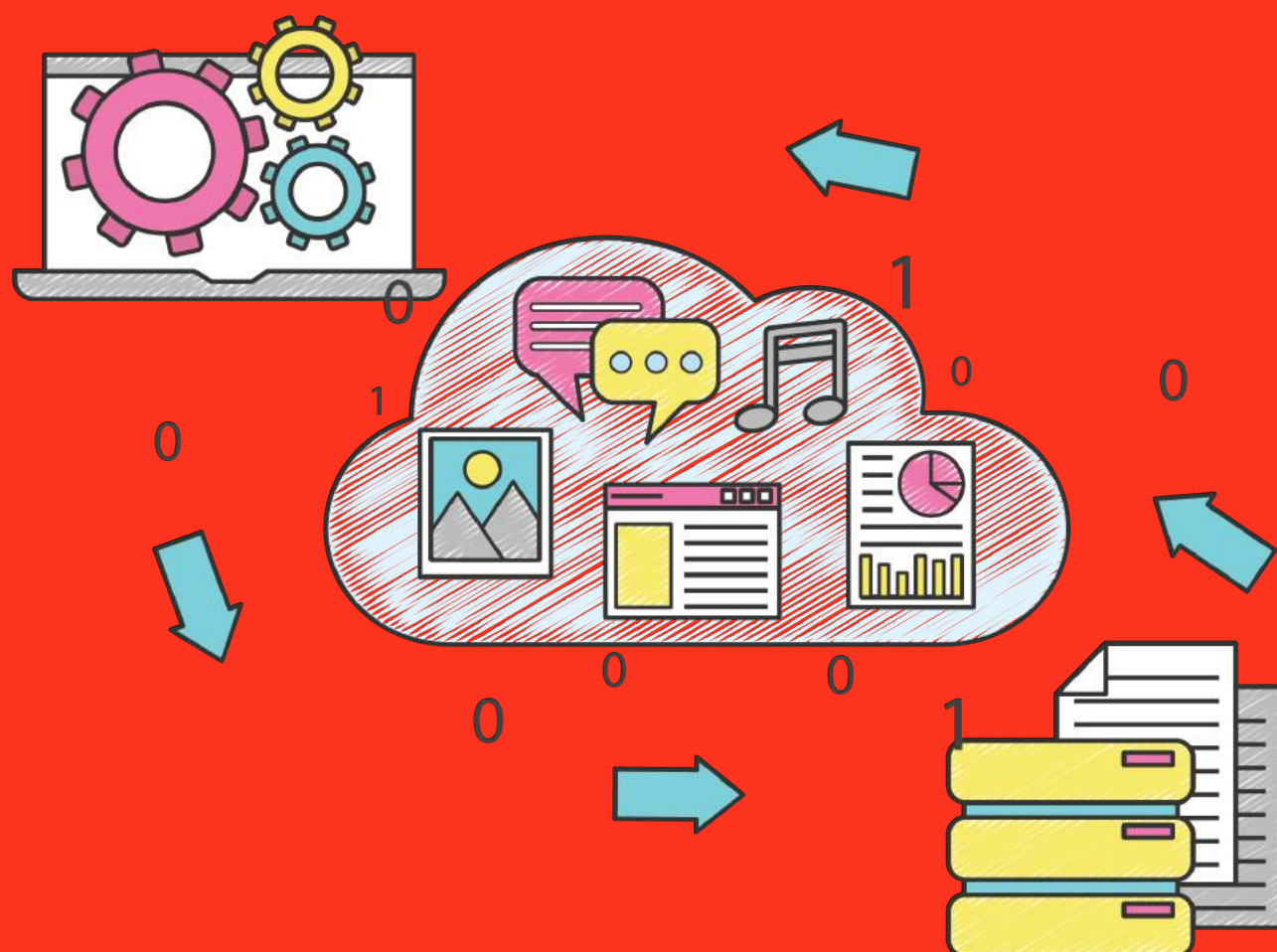
# 03

## Python

# Project: 1

### WEBCRAPING & SENTIMENT ANALYSIS

Bored of watching same old award shows? Feel that the movie that won the award is actually not at all deserving? Feel that these award shows are paid? Well, why not make your own jury system. Analyse all the user reviews from different websites like IMDB, BookMyShow, Rotten Tomatoes etc. and find out the movie of the year. Not only this, apply the same thing and find the best cricket team, best player, best bowler, best batsman etc. All these above are included in our Python project of WebScraping & Sentiment Analysis.



# Project: 2

## A MULTIPAGE FUNCTIONAL WEBSITE (PYTHON + DJANGO)

Python along with django is used in this POC .  
Use case is developed by using the core functionality of  
django auth module and a simple blogging site is made.  
It involves both admin templated and custom templated  
website. Login functionality with django forms is also  
involved in this process.





# Why

# Digital Lync









# Trending

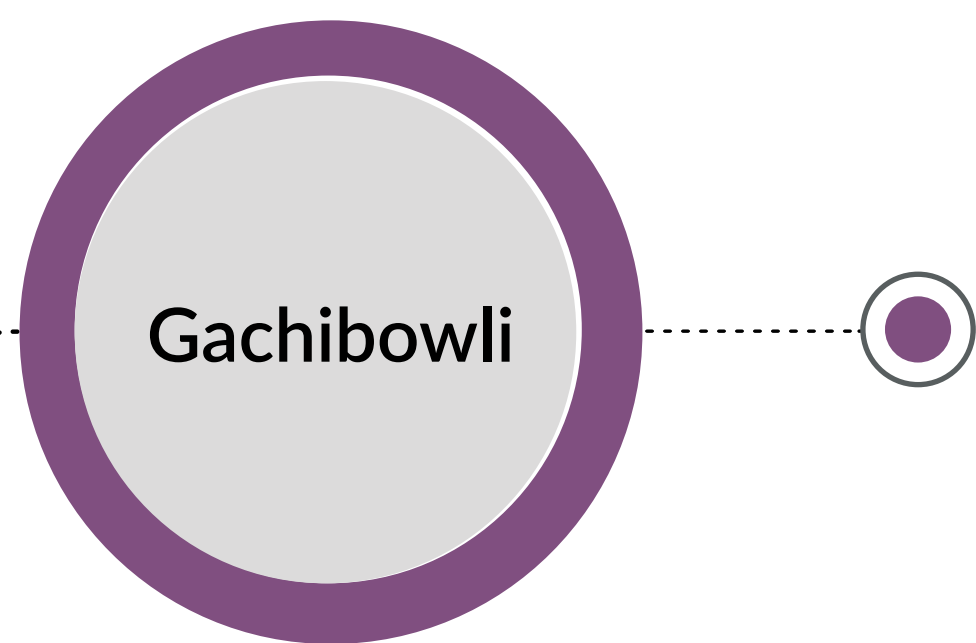
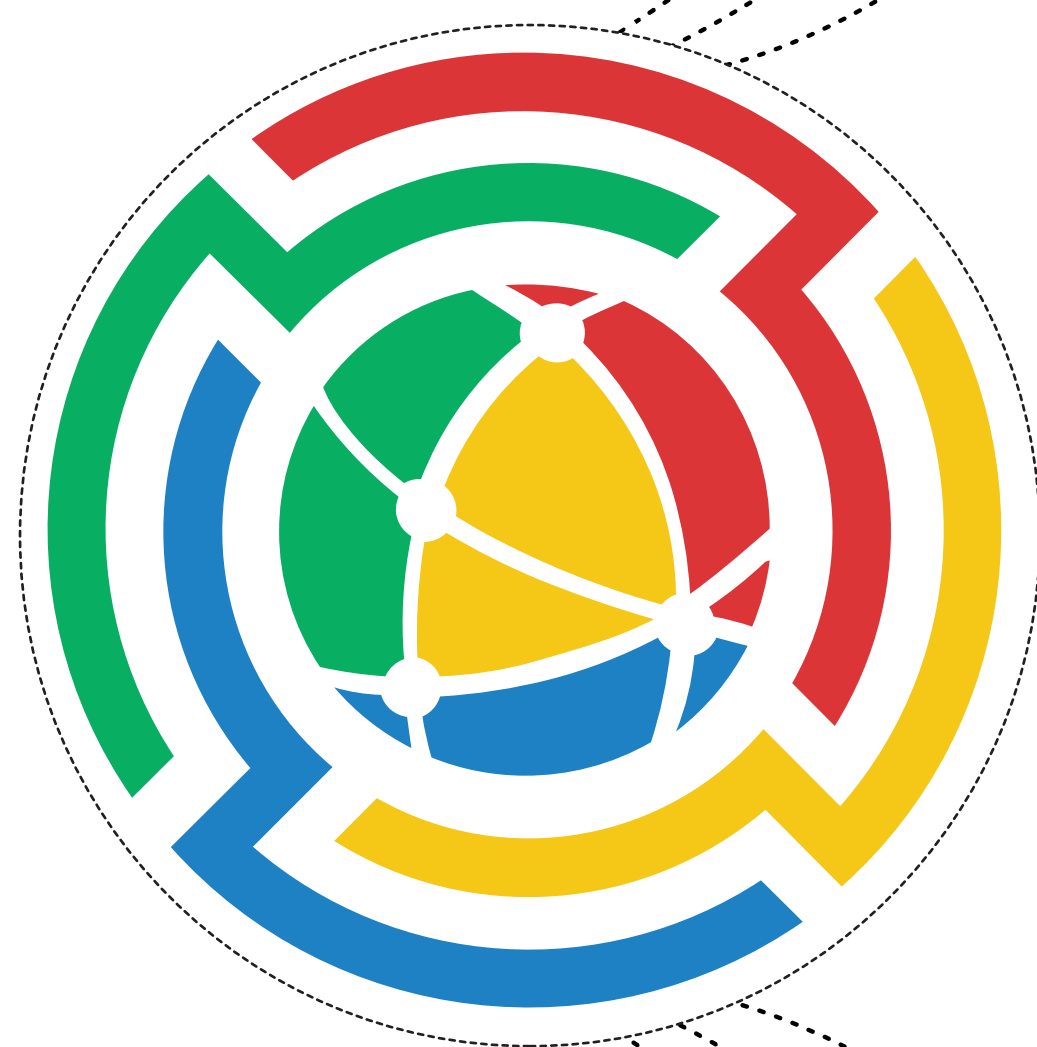
# Technology

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

DL



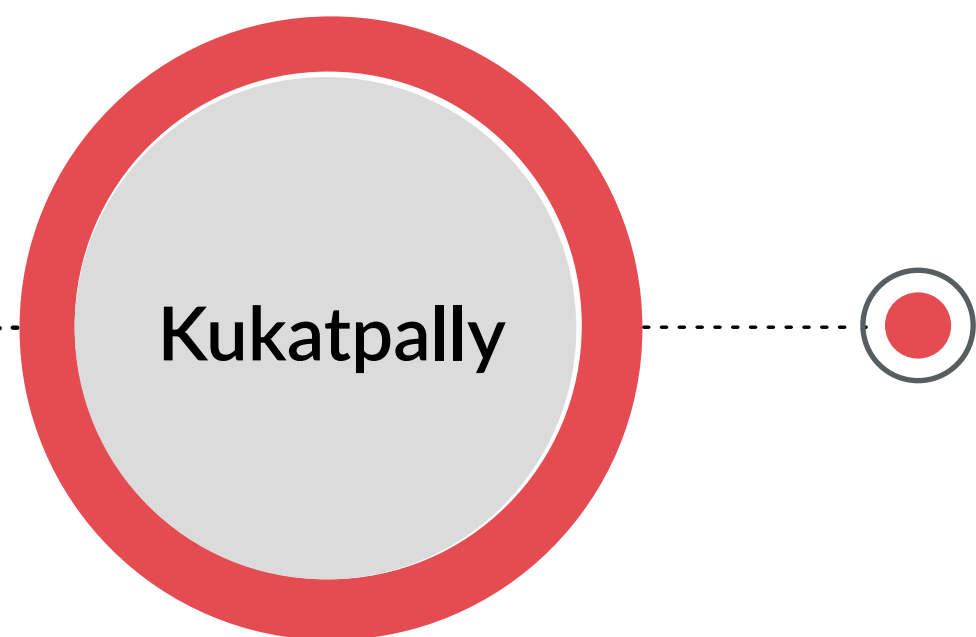
# BRANCHES



Gachibowli

Khajaguda, Naga Hills Rd,  
Madhura Nagar Colony,  
Gachibowli, Hyderabad.

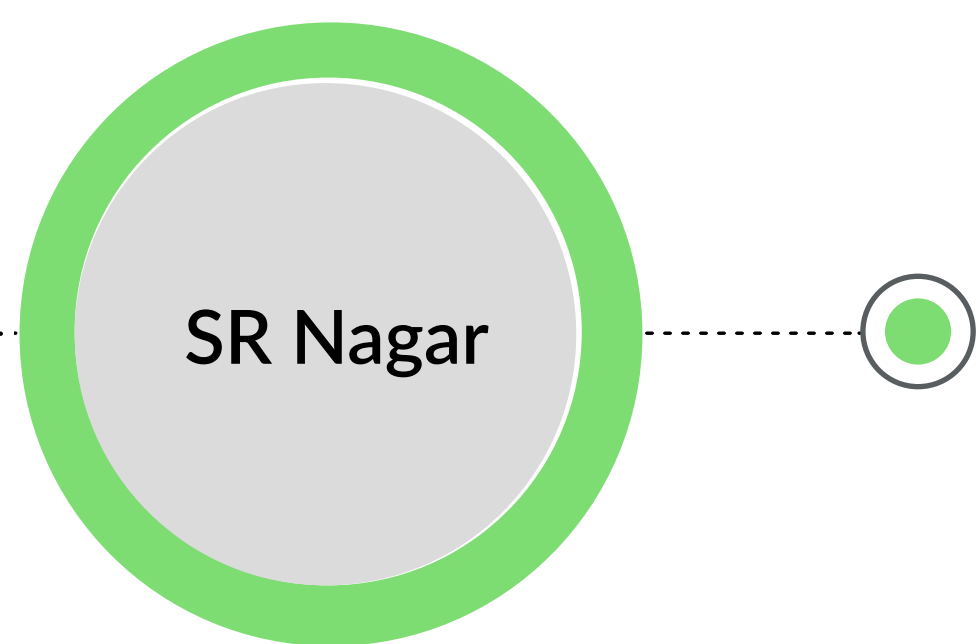
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Kukatpally

Manjeera Trinity Corporate,  
1st floor, office no. 106 & 107,  
Kukatpally, Hyderabad.

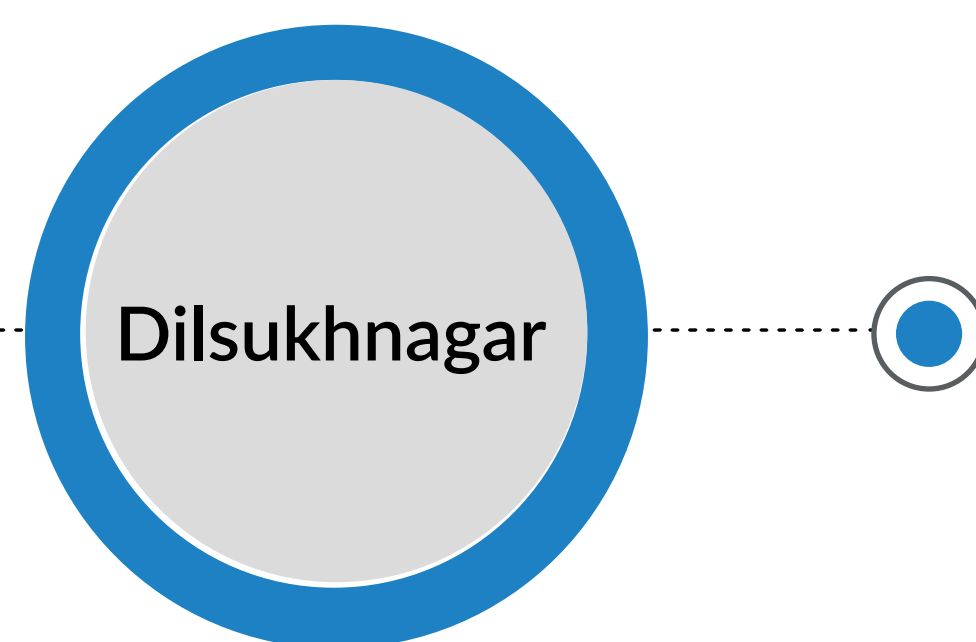
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SR Nagar

31/A , Chitti Classics, Adjacent to  
SR Nagar Police Station Signal,  
Balkampet Main Road,Hyderabad.

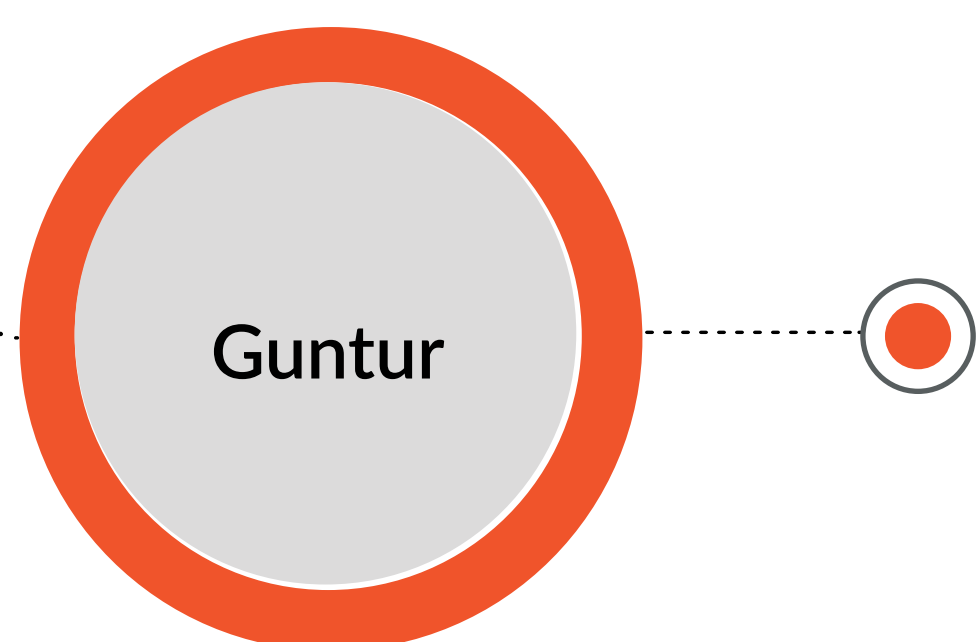
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Dilsukhnagar

Near Telephone Colony Arch,  
Yashoda Speciality Clinic  
Building 3rd floor,  
Kothapet, Hyderabad.

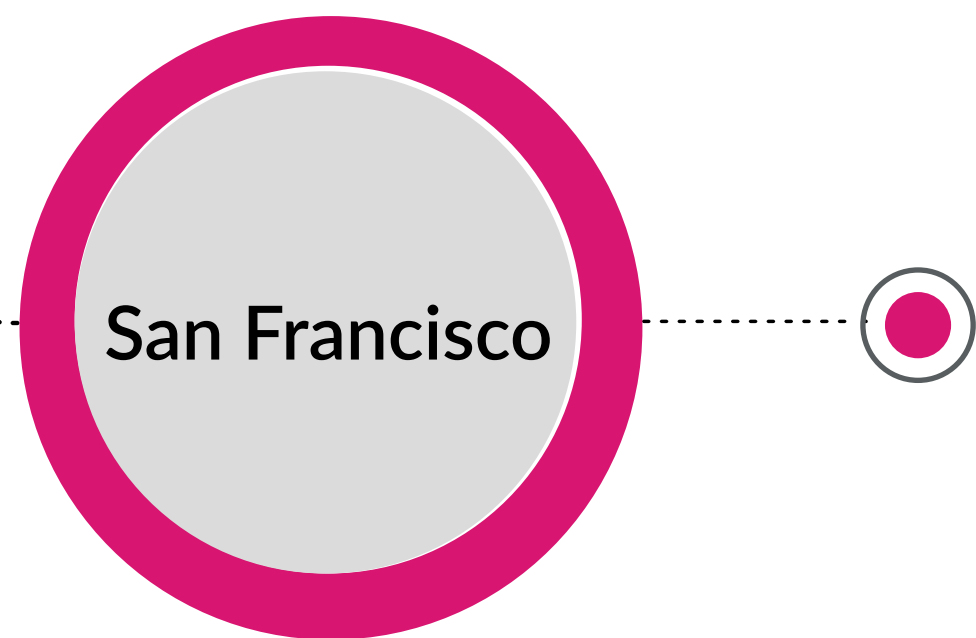
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Guntur

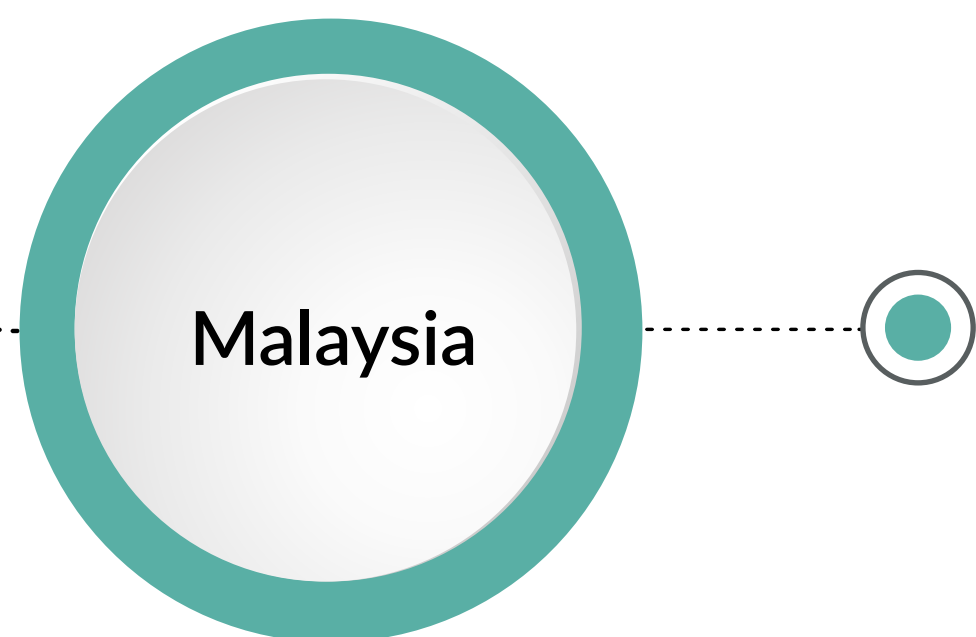
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