# Proposal for

# Social Network Analysis (SNA) with Python

## Introduction:

Social Network Analysis is the process where we try to investigate the social structures by using the networks and graph theories. In the social network, there are Nodes and Edges, based on this we make a network and build a graph through graph theory. The Node is the person whose network we are building and the Edge is the connection with the Node. In simple words, the edge represents the relationship between the Node and the network. These social media networks (SNA) are to analyze the patterns of relationships between the people in a specific group.

# Objective:

The main and basic objective and goal of this project are understanding the Social Media Networks (SNAs), how these networks work, and how they can help us know the connection between people in a group. We will be doing all the analysis in Python by using the Networkx module, NetworkX is a Python language software package for the creation, manipulation, and study of the structure, dynamics, and function of complex networks. It is used to study large complex networks represented in form of graphs with nodes and edges. Using networkx we can load and store complex networks.

At the start of our project, we will understand the basic idea of social networking and at the end of our project, we will perform a case study on Facebook data and plot the network graph using Python’s NetwrokX module.

In the project, we will go through the different types of social networks, we will be learning about the network coefficients, degrees, differences, etc.