Abstract: This investigation attempts to increase success rate of employment, entrepreneurship by addressing the dangers that college students face when seeking work and starting their own businesses in rural areas. It offers a way of social environment analysis based on employment, entrepreneurship of college students in rural areas. This approach comprehends the employment and social environment of college students' rural employment, entrepreneurship as research goal. It thoroughly examines, detects component parts of the college students' rural employment, entrepreneurship environment. In this manuscript, Optimized Multi-Scale Mixed Dense Graph Convolution Network for Career Impression Management in College Students based on Social Network Analysis (MSMDGCN-CIM-CS-SNA) is proposed. Initially input data are gathered from Xing social network Dataset. To execute this, input data is pre-processed using Distributed Adaptive Cubature Information Filtering (DACIF) and it removes the noise from collected data; then the Pre-processed data are fed to MSMDGCN for effectively categorize Career Impression Management in College Students. In general, MSMDGCN does not express adapting optimization strategies to determine optimal parameters to ensure accurate Career Impression Management in College Students. Hence, the Sand Cat swarms optimization (SCSOA) to optimize Quantum Conditional Generative Adversarial Network which accurately Career Impression Management in College Students based on Social Media. Then the proposed MSMDGCN-CIM-CS-SNA is implemented and the performance metrics like Student Origin; Proportion of Daily Living Expenses, Student’s Graduation Trend, Selection of Career Areas for College Students, Units of College Student’s Career Intention and Computation Time the World are analyzed. Performance of the MSMDGCN-CIM-CS-SNA approach attains 18.75%, 26.89% and 32.57% higher Student’s Graduation Trend; 16.87%, 24.57% and 32.94% lower Units of College Student’s Career Intention and 18.43%, 25.64% and 31.40% lower Computation Time when analyzed through existing techniques like analysis on social environment of college students' rural employment with entrepreneurship (ASE-CS-REE), recommendation model for college career entrepreneurship projects depend on deep learning (RM-CCE-DL), group relationship mining of college students depend on predictive social network (GRM-CS-PSN) methods respectively.

Keywords: Career Impression Management, Sand Cat swarms optimization, Distributed Adaptive Cubature Information Filtering, Multi-Scale Mixed Dense Graph Convolution Network and Social Network Analysis.

I. INTRODUCTION

Since the turn of millennium, China's industrial industry has flourished thanks to the country's entry into the World Trade Organization, increased reform, increased opening up [1]. China's economic structure has been steadily improving at similar time as industrial scale continuously growing [2]. Under the trend of steady expansion, it claimed that market economy operating under socialist scheme by Chinese features has seen profound transformations [3]. The landscape of entrepreneurship and employment has likewise undergone significant upheaval [4]. Using entrepreneurship as an example, several entrepreneurial groups in China are starting to form one after the other at this point [5]. Private businesses have expanded quickly during this period, along with a sizable number of small, medium-sized businesses [6]. The employees in private businesses is rising annually. Since China introduced Rural Revitalization Approach, country's vast rural areas offered favorable environment for college students to pursue employment and entrepreneurship [7]. Additionally, the experiences of these students in rural areas have given rural areas greater impetus for development and the application of rural strategies [8]. These days, the issue of employment and the entrepreneurial climate in rural areas is the culmination of numerous interrelated variables as well as the condensed representation of numerous issues [9]. For college students to establish themselves in rural locations, a favorable work and entrepreneurial environment is essential [10]. Therefore, the goal of this study is to progressively enhance the rural areas' business and employment climate as well as to establish more favorable circumstances for college students to establish themselves in these places [11]. The analysis of college students' entrepreneurship focuses mostly on their goals and endeavours, whereas the GUESS project is an international investigation with useful homework for comprehending college students’ entrepreneurship. With over 200,000 students across 54 countries, the study also includes a large sample size. In order to investigate the elements that influence women's entrepreneurship improvement, first enumerate critical determinants, make matrix that illustrates link at all stage of process, quantify, characterize the aforementioned aspects [12].
It is beneficial to support women who want to pursue professions in entrepreneurship by using this method [13]. The study of college students' entrepreneurship focuses mostly on their goals and endeavours, whereas the GUESSS project is an international investigation with useful homework for comprehending college students' entrepreneurship [14]. With over 200,000 students across 54 countries, the study also includes a large sample size [15]. In order to investigate the elements that influence women's entrepreneurship improvement, first enumerate critical determinants, make matrix that illustrates link at all stage of process, quantify, characterize aforementioned aspects [16]. It is beneficial to inspire women to pursue careers and entrepreneurial aspirations through the use of this research [17]. Interest in entrepreneurship education for students is growing worldwide, drawing interest from a variety of backgrounds. It also influences students' intention to pursue entrepreneurship.

A. Problem statement and Motivation behind this Research work

The existing methods for career impression management in college students based on social network analysis have not given an accurate output. Such techniques consume more time, lack of flexibility, specific environmental conditions, the detonation of data may not appear properly, took more process for exact output. The proposed technique has overviewed each above disadvantages, achieved the likely outcome for career impression management in college students based on social network analysis [18-24].

In this paper, progressively enhance the rural areas' business and employment climate and establish more conducive circumstances for college students to establish themselves there.

B. Contribution

- The purpose is to increase success rate of career and entrepreneurship by addressing the dangers that college students face when seeking work and starting their own businesses in rural areas.
- It offers a MSMDGCN technique for analyzing social environments based on the career impression management in college students in rural areas.
- This approach takes social context of college students' rural career impression, employment as investigation object and thoroughly understands careers and employment environment of college students as well as the components that make up their rural employment and entrepreneurial environment.

Remaining manuscripts arranged as below: section 2 defines literature review; section 3 portrays proposed method, section 4 displays results with discussions, section 5 conclusion.

II. LITERATURE REVIEW

Several investigation works were presented in literature linked to for Career Impression Management in College Students depend on Social Network Analysis using deep learning; few current works are reviewed here;

Chai [18] have presented analysis on the social environment of college students’ rural employment with entrepreneurship. Here, purpose was to increase success rate of employment with entrepreneurship by addressing the dangers that college students face when seeking work and starting their own businesses in rural areas. It offers a technique for analysing social environments based on employment with entrepreneurship of college students in rural regions. This approach takes social context of college students' rural employment with entrepreneurship as investigation object and thoroughly understands employment, entrepreneurial environment of college students as well as components that make up their rural employment and entrepreneurial environment. It provides lower student’s graduation trend and higher student origin.

Feng and Huang [19] have presented A Recommendation Model for College Career Entrepreneurship Projects Depend on DL. Here, suggests a method for recommending entrepreneurial projects that uses matrix decomposition and deep neural networks. In order to extract hidden characteristics of entrepreneurial initiatives, DNN was developed, and text description data was processed using CNN. Word embedding was utilized to process label features of entrepreneurial projects, and one-hot coding was utilized to process regional, funding round features of entrepreneurial projects. It provides higher selection of career areas for college students intention and higher units of college student’s career.

Liu [20] have presented Group Relationship Mining of College Students Depend on Predictive Social Network. Here, a combination technique for social network connection prediction that blends random blocks with neighbor data. It was possible to classify college students’ groupings by mining the social networks containing the links between them. First, the fundamental link between groups of college students under a complex network is examined using the framework of complex network theory. Second, a new combination approach was presented that combines likelihood analysis link prediction depend on random block with
proximity link prediction depend on neighbor information by employing simplest linear combination method. It provides lower Computation Time trend and lower daily living expense.

Cai. and Wang [21] have presented Prediction with Influencing Factors of College Students’ Career Planning Depend on Big Data Mining. Here, it was important to project college students’ future job development directions in order to guide their career growth. Efficient prediction techniques can offer educators a theoretical foundation and straightforward, objective data assistance to facilitate the seamless implementation of instructional guidelines. It then examines pertinent theories, popular educational data mining techniques, dimension analysis of factors that influence college students’ career growth direction. Finally, it conducts pertinent research, including modeling prediction models, implementing algorithms, and conducting case studies for prediction methods. It provides higher daily living expenses and lower students graduation trends.

Gu [22] have presented Effect of DL on college students’ career planning. Here, the disparities gender among college students have an effect on their professional lives. In general, boys are more likely than girls to plan their careers in detail. Students entering the field of social work are college graduates with job-hunting demands. The degree of career planning done by college students was impacted by family considerations. It is discovered that the most significant element influencing a student’s degree of career planning was their educational background, which is also reflected in whether or not the student has experience serving on a class committee. It provides higher student’s graduation trend and lower selection of career areas for college students.

Bo [23] have presented construction of network organization structure of college students’ education management depend on distributed network. Here, the building technique of network organizational structure of college students’ educational management was suggested depend on distributed network in order to create network organizational structure of college students’ educational management, achieve information growth of college students’ educational management. The 4-tuple method was utilized to build initial topological structure method of network-based organizational structure nodes of the college students’ education management network. The linear structure decomposition of construction nodes of network-depend organizational structure of the college students’ education management was then completed. It provides higher selection of career areas for college students’ trend and lower daily living expense.

Jiang [24] have presented Construction of Correlation Analysis Model of College Students’ Sports Performance Depend on CNN. Here, a recurrent fully connected network depend on polarization change and recurrent full convolution is proposed as a network model. By rebuilding, optimizing, and appending recurrent convolutions to the fully convolutional network, RFC-Net enhances the network. This research develops an effective and useful approach for data mining depend on inter dimensional multidimensional association rules by examining data mining technology of multidimensional association rules, depend on current processes. It provides lower student origin and higher units of college student’s career intention.

III. PROPOSED METHODOLOGY

In this proposed methodology, MSMDGCN-CIM-CS-SNA is discussed for Career Impression Management in College Students Based on Social Network Analysis. In general, to better address the dangers college students face when seeking career and starting their own business. Gathering by accurately identifying the presence, location, and characteristics of a College Students in career impression and then it is sent for further processing. These phases endure major two processes likes preprocessing and Career Impression for College Students in social media in succeeding sectors. Block diagram of MSMDGCN-CIM-CS-SNA is represented by Figure 1.
A. Analysis for College Students in Career Impression Management Environment

A business development degree is beneficial to schooling. They are indissolubly connected; they both constrain and support one another. First, the degree of industry development influences the growth of higher education. System methods and each scales of higher education, as well as the industry and standards are made up for career impression. The market's supply and demand determines supply, demand for higher education. It is impossible to overlook how higher education is developing in relation to economic development. The need for scale, improvement speed of higher education can only grow quickly when social economy is developing quickly, overall scale, speed are expanding, higher-level improvement state is demonstrated. Consequently, in order to address the issue of college students returning home from rural regions, local government needs to discovery strategies to encourage rapid, steady economic development.

B. Data Acquisition

In this section, Input data is collected from Xing social network dataset [25]. Xing social network dataset: An EU-focused version of LinkedIn, Xing is a career-focused social networking platform. Strategic hiring and recruitment decisions can help you find and validate the most qualified applicants for your organization. A comprehensive overview of professionals with information on name, experience, education, and more may be found in the Xing social network dataset. Make better use of this data to generate leads or to find talent.

C. Pre-Processing using Distributed Adaptive Cubature Information Filtering

In this section, DACIF [26] technique is utilized to remove noise from the collected input data. DACIF is derived to handle distributed state estimation in data with uncertain or inaccurate noise statistics, based on the suggested Xing social network dataset. To increase precision of distributed information fusion, new weighted rule is first applied to selection using equation (1).

\[
\text{MinTr} \left( \hat{r}_j \right) = \min_{\pi_{N,j}} \text{Tr} \left( \sum_{j \in N_j} \pi_{N,j} \hat{P}_j \right)^{-1}
\]

(1)

Where, \( \text{MinTr} \) denotes the minimum noise ranges from the collected data; \( \pi_{N,j} \) only based on the network architecture property and each noise statistic estimation is entirely random; \( \hat{P}_j \) indicate state with measurement innovation vector noise on collected data. Next, based on DACIF, information fusion of system noise statistics and state estimate is both taken into consideration and it is given in equation (2).
\[
\pi'_{N,j} = \frac{\left(\|f_{j,A}\|\|f_{j,C}\|\right)^{-1}}{\sum_{j\in N'_N} \left(\|f_{j,A}\|\|f_{j,C}\|\right)^{-1}} 
\]

(2)

Where, \(\pi'_{N,j}\) only based on the network architecture property and each noise statistic estimation is entirely random; \(\|f_{j,A}\|\) is the data cubature sampling points at time taken for noise reduction; \(\|f_{j,C}\|\) are built with each data system linearized in noise and \(\|\cdot\|\) denotes the 2-normlization of vectors in noise. Larger weighted factors therefore be allocated to an exact assessment of the measurement noise mean during the distributed fusion process, whereas lower weighted factors will be allocated to an estimate that is rather imprecise which reduces the noise and it is given as equation (3).

\[
\pi'_{N,j} = \frac{\left(\phi'_j\right)^{-1}}{\sum_{j\in N'_N} \left(\phi'_j\right)^{-1}}
\]

(3)

Where, \(\pi'_{N,j}\) only based on the network architecture property and each noise statistic estimation is entirely random and \(\left(\phi'_j\right)^{-1}\) denoted as the measurement noise fused statistics. Finally, the noise is removed from the collected data. Then the pre-processed data are fed to career impression for college students in social media phase.

D. Career Impression for College Students in Social Media using Multi-Scale Mixed Dense Graph Convolution Network.

In this section, career impression for college students in social media using MSMDGCN [27] is discussed, by selecting an unlabeled instance batch from the dataset and asked weak network to make categorize after it was created and trained. There is a two-player career that inspired it. The processed data distribution is captured by a generative model MSMDGCN, which then uses to create a fake instance. By using the generative model MSMDGCN, the discriminative model calculates the likelihood that an instance originated from the processed data which is given as equation (4).

\[
\gamma_{j,i} = \frac{\exp(x_{ij})}{\sum_{i=1}^{n} \exp(x_{ij})}
\]

(4)

Where, \(\gamma_{j,i}\) indicates the \(j^{th}\) location’s \(i^{th}\) local attention of students interest in career impression; \(x_{ij}\) indicates the process of softmax normalization yields the attention map college students in social media and \(\sum_{i=1}^{n} \exp(x_{ij})\) denotes the likelihood that an instance originated from the real career impression interest learn during college. Planning one’s career is crucial for everyone. It has to do with a person’s lifetime professional route and social standing. A career plan should take into account not just one interest but also demands of society, limitations of current circumstances. The only career planning that scientific, beneficial to one’s personal improvement is that which incorporates a variety of criteria is given as equation (5).

\[
b_i = \delta a_i + a_i
\]

(5)

Where, \(b_i\) represented to identify the best value of students; \(a_i\) depicts the actual data that was taken from the distribution of data and \(\delta = 1\) denoted as a learnable scalar that set to zero to enable the model to begin with basic role in social network. There are a lot of things for freshmen in college to learn, but long-term career planning should begin while the student is still in school, as this is when learning is most applicable. International colleges place a high value on teaching students to plan their careers and it is given as equation (6).

\[
Z_i(T) = \begin{cases} 
N_i(T), & \text{Rand (0,1)} \leq ZP \\
A_i(T), & \text{Otherwise} 
\end{cases}
\]

(6)
Where, \( Z_i(T) \) denotes the likelihood that the discriminator which determine whether the career planning produced by the students are accurate data or not; \( A_i(T) \) are joined together in the MSMDGCN depiction and \( ZP \) represents the additional information of students. A significant life turning moment occurs in college. A person progressively transforms from a child to an adult with societal duty at this point. It is natural for most individuals to become confused at this point, but in order to fulfill their goals and dreams, they must act fast to dispel their bewilderment, which calls for college students to create sensible career impression using equation (7).

\[
Z_i(T) = \begin{cases} 
Z_i, & e(Z_i(T)) \geq e(A_i(T)) \\
A_i(T), & \text{else}
\end{cases}
\]  
(7)

Where, \( Z_i(T) \) denotes the likelihood that the discriminator which determine whether the career planning produced by the students are accurate data or not; \( A_i(T) \) are joined together in the MSMDGCN depiction; \( e \) matching students interest inside the career and \( Z \) records the student career impression data distribution and uses to create a best instance. Finally, MSMDGCN accurately analyze the career impression for college students in social media. Due to its convenience, pertinence, AI-depend optimization approach is taken into account in MSMDGCN network. Here, SCsoa is employed to optimize MSMDGCN. Here, SCsoa is employed for tuning weight, bias parameter of MSMDGCN.

E. Optimization Using Sand Cat Swarms Optimization Algorithm

The proposed SCsoa is utilized to enhance weights parameters \( \delta o_i \) of proposed MSMDGCN [28]. Sand cats are found arid regions with stony, sandy surfaces, like Arabian Peninsula, central Asia, and Africa. The small, agile, modest sand cat exhibits distinct behaviors’ in both hunting and daily life. Although there isn’t much of an aesthetic distinction between sand cats and domestic cats, their lifestyles are very different. Unlike many other cats, sand cats do not live in colonies. The palms and foot soles of sand cats have a thicker layer of sandy to light grey fur. In addition, the sand cat’s hair qualities make tracking and detection challenging. Here, step by step procedure for obtaining appropriate MSMDGCN values using SCsoa is described here. To creates a uniformly distributed population for optimizing the ideal MSMDGCN parameters. The entire step method is then presented in below, 

**Step 1: Initialization**

Initial population of SCsoa is, initially generated by randomness. Then the initialization is derived in equation (8).

\[
x = \begin{bmatrix} 
x_{1,1} & x_{1,2} & \cdots & x_{1,n} \\
x_{2,1} & x_{2,2} & \cdots & x_{l,n} \\
\cdots & \cdots & \cdots & \cdots \\
x_{n,1} & x_{n,2} & \cdots & x_{n,D}
\end{bmatrix}
\]  
(8)

Where, \( x \) denotes the total population of sand cat in the tracks; \( n \) indicates the \( n^{th} \) number of SCsoa while attacking towards its prey and \( D \) represents the distance between the hunting prey and SCsoa.

**Step 2: Random generation**

Input weight parameter \( \delta o_i \) developed randomness via SCsoa method.

**Step 3: Fitness function**

It creates randomly solution from initialized values. It is calculated using optimizing parameter. Then, formula is derived in equation (9).

\[
\text{Fitness Function} = \text{optimizing} \ [\delta o_i]
\]  
(9)

**Step 4: Exploration phase**

The SCsoa algorithm’s searching process is explained in this section. Sand cats’ strategy for searching prey depends on low frequency noise emission. The limits of the search space are randomly initialized. Every search agent’s location is updated through searching phase using random location. The search agents are investigate novel areas inside search space in this way. All sand cat has distinct sensitivity range to evade local optimum trap and it is given as equation (10).

\[
\text{Position}(T + 1) = R \left[ \text{Position}_{oc}(T) - \text{Rand}(0,1), \text{Position}_{oc}(T) \right]
\]  
(10)
Where, $\overline{\text{Position}}_y$ signifies repositions itself in accordance with the position of the top candidate; $\overline{\text{Rand}}$ denotes the random number in range $[0, 1]$; $\overline{\text{Position}}_z$ denotes current location of SCSOA and $(T)$ denotes the total number of iteration. And Figure 2 shows the corresponding flowchart.

**Step 5:** Exploitation phase for optimizing $\delta o_i$

Sand cats are instructed to assault prey; if not, they must locate another potential solution in the globe region. Execute well in higher-dimensional with multi-objective problems because of balanced behavior of suggested method, effort to locate other potential local regions in global space, which has rapid, accurate convergence rate. Then the SCSOA exploitation is given as equation (11).

$$
\overline{\text{Position}}(T + 1) = \overline{\text{Position}}_y(T) - \overline{\text{Rand}} \cdot \overline{\text{Position}}_\theta \cdot \overline{\text{Rand}}
$$

(11)

Where, $(T)$ denotes the total number of iteration; $\overline{\text{Cos}}(\theta)$ denotes the on circle of a random angle SCSOA movement's direction; $\overline{\text{Rand}}$ denotes the random number in the range $[0, 1]$ and $\overline{\text{Position}}_z$ denotes the sensitivity range of SCSOA.

**Step 6:** Termination

The weight parameter value of generator $\delta o_i$ from Multi-Scale Mixed Dense Graph Convolution Network is optimized by utilizing SCSOA; and it repeat step 3 until it obtains its halting conditions $x = x + 1$. Then MSMDGCN-CIM-CS-SNADefectively assesses for career impression management in college students based on social network analysis by higher selection of career areas for college students, lessening computational time with error.

**IV. RESULT WITH DISCUSSION**

Experimental results of MSMDGCN-CIM-CS-SNA are discussed. The simulation is implemented in PYTHON using PC through Intel core i5, 2.50 GHz CPU, 8GB RAM, windows 7 using Xing social network Dataset. Attained result of MSMDGCN-CIM-CS-SNA method is analyzed with existing techniques likes ASE-CS-REE, RM-CCE-DL and GRM-CS-PSN systems.
A. Performance measures

Performance of proposed method is examined utilizing performance metrics such as Student Origin; Proportion of Daily Living Expenses, Student’s Graduation Trend, Selection of Career Areas for College Students, Units of College Student’s Career Intention and Computation Time.

1) Student Origin

Typically, “student origin” refers to the location or nation of a student's birth, more precisely, where they are originally from. It might contain information on the nation, city, or area in which the student was born or raised. Knowing where a student is from can be helpful in a number of situations, including demographic research, educational research, and concerns about cultural diversity in higher education.

2) Student’s Graduation Trend

“Student's Graduation Trend” describes, in general, the patterns, inclinations, or trends noted in a group of students’ graduation rates or results over a given time frame. It entails examining data about students who graduate from college and get degrees within a specified period of time.

3) Selection of Career Areas for College Students

The process by which college students select or decide which particular fields, industries, or professions they want to pursue after completing their education is referred to as “selection of career areas for college students”. Then, process of making decisions entails giving considerable thought to one's values, abilities, interests, and long-term objectives.

B. Performance analysis

Figure 3 to 8 shows simulation result of MSMDGCN-CIM-CS-SNA method. The performance metrics are analyzed with existing ASE-CS-REE, RM-CCE-DL and GRM-CS-PSN methods.

Figure 3: Student origin analysis

Figure 3 depicts student origin analysis. The MSMDGCN-CIM-CS-SNA attains 18.57%, 24.89%, and 32.97% lower Student Origin which is analyzed with existing method such as ASE-CS-REE, RM-CCE-DL and GRM-CS-PSN respectively.

Figure 4: Student’s graduation trend analysis

Figure 4: Student’s graduation trend analysis
Figure 4 depicts student’s graduation trend analysis. The MSMDGCN-CIM-CS-SNA attains 17.82%, 23.92%, and 33.20% higher Student’s Graduation Trend which is analyzed with existing method such as ASE-CS-REE, RM-CCE-DL and GRM-CS-PSN respectively.

Figure 5: Units of college student’s career intention analysis

Figure 5 depicts units of college student’s career intention analysis. The MSMDGCN-CIM-CS-SNA attains 16.41%, 24.19%, and 32.61% lower Units of College Student’s Career Intention which is analyzed with existing method such as ASE-CS-REE, RM-CCE-DL and GRM-CS-PSN respectively.

Figure 6: Selection of career areas for college student’s analysis

Figure 6 depicts selection of career areas for college student’s analysis. The MSMDGCN-CIM-CS-SNA attains 17.32%, 23.80%, and 33.96% higher selection of career areas for college students which is analyzed with existing method such as ASE-CS-REE, RM-CCE-DL and GRM-CS-PSN respectively.

Figure 7: Proportion of daily living expenses analysis
Figure 7 depicts proportion of daily living expenses analysis. The MSMDGCN-CIM-CS-SNA attains 17.38%, 23.09%, and 33.48% higher Proportion of Daily Living Expenses which is analyzed with existing method such as ASE-CS-REE, RM-CCE-DL and GRM-CS-PSN respectively.

C. Discussion

A novel MSMDGCN-CIM-CS-SNA model to career impression management in college students based on social network analysis using collected data from Xing social network dataset is developed in this paper. The MSMDGCN-CIM-CS-SNA model involves encompasses DACIF based global data on Xing social network dataset preprocessing and MSMDGCN based Career Impression for College Students in Social Media. Finally, MSMDGCN model utilized for performing for college students which analyze the career impression management in college students. The instance of Xing social network dataset, the average highest outcomes of the approach were compared to the average results given in existing methods such as ASE-CS-REE, RM-CCE-DL and GRM-CS-PSN. This is less expensive than comparing to the proposed method. The proposed MSMDGCN-CIM-CS-SNA method for career impression for college students in social media from Xing social network dataset; however, the proposed method employs a faster MSMDGCN in conjunction with the SCSOA algorithm, resulting in a more efficient collection of data and a better ability to deal with the model over-fitting problem. The high selection of career areas for college students values of ASE-CS-REE, RM-CCE-DL and GRM-CS-PSN are 18.20%, 24.81% and 31.18% respectively higher than existing methods such as ASE-CS-REE, RM-CCE-DL and GRM-CS-PSN respectively. Similar to this, the daily living expenses of proposed method is 96.94% analyzed with average Emission of comparison techniques of 82.54%. The proposed method MSMDGCN-CIM-CS-SNA has high selection of career areas for college students and student’s graduation trend evaluation metrics than existing methods. Therefore, the comparative methods are expensive than the proposed technique. As a result, the proposed technique analyses the career impression for college students in social media more effectively and efficiently.

V. CONCLUSION

In this section, MSMDGCN-CIM-CS-SNA is successfully executed. Proposed MSMDGCN-CIM-CS-SNA method is applied in PYTHON with Xing social network dataset. Then the data are pre-processed from Xing social network dataset, for the career impression management in college students depend on social network analysis. Along with experimental results, MSMDGCN-CIM-CS-SNA performed better when used with the co-training technique than when used separately regards student origin, daily living expenses and selection of career areas for college students. The performance of MSMDGCN-CIM-CS-SNA approach attains 17.02%, 23.26% and 32.42% lower Student Origin and 33.10% higher daily living expenses when analyzed with existing methods like ASE-CS-REE, RM-CCE-DL and GRM-CS-PSN respectively.
REFERENCE


