

Research Article

A Study on Matrimonial Sites in India

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The two major objectives of the present study are 1) to understand the socio-economic and demographic profile of a sample of individuals who are currently registered on a matrimonial site. 2) To discover the differences in partner preferences of men and women on matrimonial sites, apart from noting their experience of being on matrimonial sites. A total of 103 respondents currently registered on a matrimonial site, took part in the study. The present study has led to two major findings- 1) Both male and female respondents are more dissatisfied than satisfied with the services provided via matrimonial sites. 2) Arranged marriage is taking a modern turn and has assumed some of the characteristics of modern dating sites. There is a growing concern about the business like nature of arranged marriage through matrimonial sites. There is excessive importance being given to the materialistic facets at the cost of other important variables such as personality, compatibility, and future plans. There is also a need to take greater efforts to filter fake profiles on matrimonial sites. Finally, the fact that people who had previously opted for paid membership are no longer willing to opt for it is an indication that the paid upgrades are not offering a satisfactory experience for the members. The need of the hour is for matrimonial sites to reduce their intense focus on economic variables and consider focusing on the other important factors that can help individuals find compatible partners.

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Introduction

While internationally, and especially in America, researchers have begun focusing on studying interracial coupling (Miller et al., 2022), multicultural families (James et al., 2022), and sexual difficulties among couples (Graham et al., 2020), in India, arranged marriages that are linked to economic interests are still the norm (Parkin, 2021), and topics surrounding sexual satisfaction are not discussed very openly.

Arranged marriage is often confused with forced marriage which is considered as a form of abuse by men against women (Idriss, 2022). Arranged marriage is a form of pre-planned coupling based on common interests and goals. In the modern era, and especially since the beginning of the internet era, arranged marriages have taken a technological turn. Today, arranged marriage sites or commonly known as matrimonial sites, resemble dating sites in many ways that are also available on smartphones via apps (Chakraborty, 2019).

Historically speaking, arranged marriages have been in existence throughout history with anthropological evidence suggesting that historically, it has been more common for parents to choose their children's spouse than previously assumed (Apostolou, 2017). This has certainly been the case in India where the tradition is very much alive and in fact, it is estimated that more than 95 per cent of all marriages in countries like India (Singh et al., 2016) are arranged.

There is however, a significant difference between traditional arranged marriages and arranged marriages in the 21 century, especially in urban areas which have a considerable middle class and upper middle class population that is educated and has access to the latest technology, including smartphones and high speed mobile and broadband internet (Yadav et al., 2021). Although some of the online matrimonial sites in India have their origins in the late 1990s (Srinivasan, 2021), the online matrimony revolution began much later after the internet revolution took over. Today, anyone aged 18 and above can register on a matrimonial site in India, upload their profile, like one would do on a dating site, and begin sending and accepting requests to take things forward. It must be noted however that since the same profile can be logged into through multiple devices at the same time, parents of the would be bride/groom can also operate the profile on behalf of the individual. In some cases, the siblings or close relatives of the individual may also operate the profile or the profile might be jointly operated by multiple relatives including the individual seeking a partner. Although this might seem like a violation of privacy, and perhaps it is in some ways, this does not raise the eyebrows of most Indians because marriage is not just seen as a union of two people, but a union of two families as well, and arranged marriages generally accommodate the interests of the families concerned (Donner & Santos, 2016). On the other hand, due to this technological revolution that allows individuals to use matrimonial sites on their own as well, mate choices do matter, even if it is arranged. There are other factors such as the liberalization, privatization, and globalization of the Indian economy that has boosted the income levels of young working professionals in the country, which in turn has led to greater control being given to youngsters in choosing their partner. This structural adjustment of the economy involving a shift from a state

controlled economy to a more market friendly economy took place in the year 1991 (Baru & Mohan, 2018) and that was the turning point that helped India pave its path towards becoming one of the largest economies of the world today with an active tourism industry that contributes 9.2 per cent to the Indian GDP (Chaudhary et al., 2020).

As far as partner preferences are concerned, there is considerable research that suggests that men and women differ when it comes to mate choices for long term partnerships such as marriage (Bech-Sørensen & Pollet, 2016) with cross cultural research indicating several differences with women preferring to marry men who are older than them and men preferring to marry women who are generally younger than them (Walter et al., 2020). However, the question remains- how accurate is this in the case of arranged marriages? With millions of Indians seeking partners through the arranged marriage route and thus making use of matrimonial sites, this is a research question to which many would want to know the answer and this is precisely why the researchers have opted to undertake the present study.

Methodology

The two main objectives of the present study are 1) to understand the socio-economic and demographic profile of a sample of individuals who are currently registered on a matrimonial site and are looking for a partner. 2) To discover the differences in partner preferences of men and women who are registered on matrimonial sites apart from noting their experience of being registered on a matrimonial site.

Universe and Sampling

Since the present study is focused on Indians who are registered on matrimonial sites and since it is difficult to identify and personally interview individuals who are registered on a matrimonial site, the data was collected from a sub-reddit (an online group) on the social media site- Reddit. This sub-reddit was dedicated to arranged marriage and participants were requested to fill in the online questionnaire shared on the site. A total of 114 responses were received of which some of the responses were incomplete. Hence, the final sample size was 103.

Inclusion and Exclusion Criteria

In order to be included in this study, the respondents needed to be 18 years or older. Moreover, they needed to be currently registered on a matrimonial site, and had to be currently residing in India. Individuals who were using matrimonial sites on behalf of someone else were excluded from the study

since the aim of the study was to discover the partner preferences of the individuals themselves and not their parents/siblings/friends.

Tools of Data Collection

As mentioned previously, an online questionnaire was used to collect data from the respondents. The questionnaire contained three parts. The first part contained questions related to the socio-economic and demographic factors whereas the second part contained questions related to their presence and experience of matrimonial sites. The third part of the questionnaire contained partner preferences. This included their preference in terms of age, height, income, and other important variables. Specifically, these variables were included as a result of reviewing previous studies that confirmed that there were certain gender differences in partner preferences in non-arranged marriage settings. For example, a meta analysis showed that while men prefer women who are younger, women prefer men with breadwinning capabilities (Abramova et al., 2016). Studies also indicate that women prefer taller men (Buss & Schmitt, 2019). However, most of these studies have examined these preferences from the perspective of individuals registered on dating sites and conducted mostly on western populations. The present study is aimed at examining whether such preferences also hold good in arranged marriage sites or matrimonial sites in the Indian context.

Analysis of Data

The collected data was entered into PSPP, a freeware data analysis software (Yagnik, 2014). Apart from conducting a basic percentage analysis to highlight the background characteristics of the respondents, the researchers also conducted chi square tests to identify the differences in partner preferences among both genders. One of the reasons why chi square tests were chosen was that the variables in the study were categorical in nature. Moreover, in some cases, Fisher's Exact test was used as it is more accurate and appropriate than chi square tests for smaller samples (Connelly, 2016) and when more than 20% of the cells have less than 5 expected frequencies (Kim, 2017).

Ethical Consideration

The researchers have adhered to the principles laid out in the Belmont Report (Zucker, 2007) and have also secured the ethical approval from St. Joseph's University. None of the items in the questionnaire were hurtful in any manner. Respondents needed to provide their consent in order to be part of the study.

Results

Background Characteristics (Table 1)

A basic percentage analysis was conducted to understand the basic characteristics of the respondents (Table 1). From the results, it can be concluded that the respondents in the present study were well educated and belonged to a well-off economic background. It is also important to note that majority of the respondents in the present study hailed from metropolitan cities. This indicates that although matrimonial sites are used by individuals living in villages, it still remains more popular in cities and in particular, metropolitan cities where many people migrate to because of more job prospects in urban areas when compared to villages (Imbert & Papp, 2020). Migrating to a city or a metropolitan city can also result in the loss of contact with extended family members. This in turn could have an impact on the manner in which individuals seek potential partners. Traditionally, when a vast majority of Indians still lived in villages, arranged marriage partners were sought using extended family networks, mostly through the word of mouth based on caste endogamy that drove the traditional arranged marriage system (Allendorf & Pandian, 2016). Today, migration has left many families being disconnected with their extended family ties. As a result, matrimonial sites have become a more common tool for searching potential mates for those looking for an arranged marriage. It appears to be more popular among the economically well off because in order to use these sites, one needs to own a computer or a smartphone, an active and fast internet connection, and one needs to live in the urban areas where there is already a concentration of individuals looking for potential partners through these arranged marriage sites.

Variables	N	%	\bar{x} (min) (max)
Age group (yrs)			
21-30 years	88	85.4	27.43 (21) (56)
31 years and above	15	14.6	
Gender			
Female	40	38.8	
Male	63	61.2	
Marital status			
Never married	97	94.2	
Widowed	01	01	
Divorced/Separated	05	4.9	
Religion			
Hindu	69	67	
Muslim	07	6.8	
Christian	18	17.5	
Other	9	8.7	
Highest qualification			
Undergraduate	46	44.7	
Postgraduate	51	49.5	
PhD	06	05.8	
Annual income (in Indian Rupees) Note: Rs. 7 lakh = 8,450 USD			
Rs. 7 lakh and below	52	50.5	15.5 lakh (0) (1 crore)
Above Rs. 7 lakh	51	49.5	
Current Location			
Village/Town	17	16.5	
Town/City	21	20.4	

Variables	N	%	\bar{x} (min) (max)
Metropolitan City	65	63.1	
Alcohol consumption habits of the respondent			
Never drinks	47	45.6	
Drink socially	51	49.5	
Drink regularly	05	4.9	
Smoking habits of the respondent			
Never smokes	84	81.6	
Smoke occasionally	17	16.5	
Smokes regularly	02	1.9	
Economic status of the respondents' family			
Rich	8	7.8	
Upper middle class	46	44.7	
Middle class	44	42.7	
Lower middle class	05	4.9	

Table 1. Basic Percentage Analysis (n =103)

Experience with Matrimonial sites (Table 2)

Although a little more than half of the total respondents do operate their matrimonial account by themselves, a considerable number of respondents have stated that either their parents operate and manage their account or that it is jointly managed. This indicates that although matrimonial sites and their mobile apps appear to be similar to dating sites in terms of their interface, the traditional arranged marriage system and its insistence on parents being the primary decision makers holds good to some extent although the sites do provide individuals who are seeking partners some autonomy in choosing their partners within the arranged marriage setup.

As far as the experience of being on the matrimonial site is concerned, there was just a 1 per cent difference in the percentage of individuals who were dissatisfied with matrimonial sites vs those who were neither satisfied or dissatisfied and on the whole, a higher percentage of respondents were dissatisfied than satisfied with matrimonial sites. This is also reflected in the fact that a slightly higher percentage of respondents are not paid members at the moment when compared to the past. To understand the precise reasons as to why there is a sense of dissatisfaction among the respondents, the qualitative data in terms of the comments of the respondents have been analyzed (table 4).

Variables	N	%	\bar{x} (min) (max)
Number of years spent on matrimonial sites			
0-1 year	67	65	1.6 (0.20) (8)
2-3 years	26	25.2	
4 years or more	10	9.7	
Person who manages the respondent's matrimonial account			
Respondent	56	54.4	
Parents/friends/siblings	19	18.4	
Jointly managed	28	27.2	
Are you currently a paid number?			
Yes	36	35	
No	67	65	
Have you been a paid member in the past?			
Yes	46	44.7	
No	57	55.3	
Amount of money spent on matrimonial site so far			
Rs. 5,000 or below	69	67	Rs. 8,303 (0) (1,00,000)
Rs. 5,001 to Rs. 10000	11	10.7	
Rs. 10001 and above	23	22.3	
How satisfied are you with matrimonial sites?			
Extremely dissatisfied	15	14.6	
Dissatisfied	34	33.0	
Neither satisfied nor dissatisfied	35	34.0	
Satisfied	13	12.6	
Extremely satisfied	06	5.8	

Table 2. Matrimonial Site Experience (n =103)

Differences in Partner Preferences across Gender (Table 3)

In order to avoid overcrowding of the tables with multiple variables, only those results that were found to be statistically significant have been presented in table 3. While chi-square tests were performed in the case of five of the variables, Fisher's exact test was performed in the case of two other variables. Fisher's test was opted for analyzing two of the seven variables because the assumption of minimum expected count in each cell (Franke et al., 2012) was violated in those two cases. This is fundamental assumption that has to be met in order to carry out a chi square test (Franke et al., 2012) and since it wasn't met in these two cases, Fisher's test was used instead of the chi square test.

Based on the results laid out in table 3, it can be stated that a greater percentage of female respondents than male respondents were more likely to prefer a partner who was taller, highly educated (postgraduate or above; $p<0.001$), was a higher earning individual ($p<0.0001$); and someone who was settled abroad ($p<0.01$). This is in line with existing research that indicates that women tend to choose partners for their sociosexuality including their height, level of income and education (Asendorpf et al., 2011). The results also indicate that women prefer older men whereas men are more likely to prefer a younger partner. This too is in line with previous research (Schwarz & Hassebrauck, 2012). Female respondents were more likely to have their profiles managed by their parents or jointly managed when compared to male respondents ($p<0.05$) and they were also more likely to spend a slightly greater number of years on a matrimonial site when compared to their male counterparts ($p<0.01$). Both these findings indicate that in the case of female respondents, there is greater parental control and higher expectations from male counterparts.

Association between gender and preferred age of potential partner					
Gender	Same/Similar age	Younger	Older	Total	Chi sq. 46.094 Sig 0.000 (p<0.001)
Female	13 (32.5%)	2 (5.0%)	25 (62.5%)	40 (100%)	
Male	22 (34.9%)	37 (58.7%)	4 (6.3%)	63 (100%)	
Total	35 (34.0%)	39 (37.9%)	29 (28.2%)	103 (100%)	
Association between gender and preferred height of potential partner					
Gender	Same/Similar height	Shorter	Taller	Total	Chi sq. 60.826 Sig 0.000 (p<0.001)
Female	07 (17.5%)	0 (0.0%)	33 (82.5%)	40 (100%)	
Male	30 (47.6%)	28 (44.4%)	5 (7.9%)	63 (100%)	
Total	37 (35.9%)	28 (27.2%)	38 (36.9%)	103 (100%)	
Association between gender and preferred educational status of potential partner					
Gender	Undergradaute	Postgraduate or above	Total	Chi sq. 19.161 Sig 0.000 (p<0.001)	
Female	19 (47.5%)	21 (52.5%)	40 (100%)		
Male	55 (87.3%)	8 (12.7%)	63 (100%)		
Total	74 (71%)	29 (28.2%)	103 (100%)		
Association between gender and preferred income of the potential partner					
Gender	Below Rs. 7 lakh	Rs. 7 lakh and above	Total	Chi sq. 23.127 Sig 0.000 (P<0.001)	
Female	12 (30%)	28 (70%)	40 (100%)		
Male	49 (77.9%)	14 (22.2%)	63 (100%)		
Total	61 (59%)	42 (40.8%)	103 (100%)		
Association between gender and preferred location of the partner					
Gender	Doesn't matter	India	Abroad	Fisher's Exact Test 11.553 Sig 0.002 (P<0.01)	
Female	15 (37.5)	19 (47.5%)	06 (15%)		
Male	19 (30.2%)	44 (69.8%)	0 (0%)		
Total	61 (59%)	42 (40.8%)	6 (5.8%)		

Association between gender and profile management					
Gender	Respondent	Parents/friends/siblings	Jointly managed	Total	Chi sq.
Female	16 (40%)	12 (30%)	12 (30%)	40 (100%)	7.406
Male	40 (63.5%)	7 (11.1%)	16 (25.4%)	63 (100%)	Sig 0.025
Total	56 (54.4%)	19 (18.4%)	28 (27.2%)	103 (100%)	(p<0.05)
Association between gender and number of years spent on a matrimonial site					
Gender	0-1 year	2-3 years	4 years or more	Total	Fisher's Exact test.
Female	19 (47.5%)	17 (42.5%)	4 (10%)	40 (100%)	10.587
Male	48 (76.2%)	9 (14.3%)	6 (9.5%)	63 (100%)	Sig 0.005
Total	67 (65.0%)	26 (25.2%)	10 (9.7%)	103 (100%)	(p<0.01)

Table 3. Association between gender and partner preferences on matrimonial sites

Comments by respondents

Apart from gaining an insight into the partner preferences of men and women who are registered on a matrimonial site, one of the other objectives of the present study is to note their experience of it. Hence, the questionnaire included one last open ended question titled- Comments about your experience of being on a matrimonial site. To this, the researchers received 35 responses. However, only certain comments were detailed (more than 3-4 words) and those comments are laid out below.

Comments by Female Respondents

1. *It sucks. The parental involvement is the worst. Men take 0 effort in presenting themselves favorably. It's simply disappointing.*
2. *Too many queries from the candidates, sometimes it's uncomfortable.*
3. *Fake income and earning information, unclear background verification, and requests from unsuitable matches despite clearly mentioning our expectations.*
4. *Irrelevant matches, contacted by unmarried and rejected for being divorced. Divorcee stigma even on these sites is exhausting.*

5. Guys here want a **sanskari** (one who adheres to traditions) home wife, but that's not my preference. Couldn't find men who understand basic feminism.
6. I'm a female.. the experience so far has not been a good one as I'm still searching for a partner.
7. Not suitable for me. Most of the profiles are **old fashioned/regressive/conservative** and are **managed by parents** which is a big no no for me. I can't match with people for whom things like caste, height, past relationships are important. It is hard to find a person of my mindset via matrimonial apps but I am still hopeful.
8. I am a female and had a bad experience about his **family hiding details** so I had to break off the engagement...so trusting people is difficult.
9. As a girl, the biggest drawback is when people act like my business should take a backseat. I can't change my city as my setup is here, so I try to look for partners in my city, but I'm expected to work fewer hours, be more attentive to their extended family and spend all my time talking to them during courtship. I am a full person, this is an extension in my life so I will still do my work, meet friends once every two weeks and not put everything else on a backseat for someone I've just started to get to know.
10. Sucked, found fiancé on dating app. Matrimonial sites don't work.
11. Many sites have poor interface experience. There **are no visible benefits of payment**. There is hardly any increase of visitors. They harass you to be a member.. Later, they are not even bothered to give a good customer experience.
12. I get irritated sometimes as many **men will DM (direct message) me** on social media. Also, nothing has worked out so far.
13. As a woman, I hate them (arranged marriage sites) because **they'll let parents** willfully auction their children online, like it's nothing.

Comments by Male Respondents

1. One of the most frustrating things has been getting the first meeting arranged. I think there should be a rating system available on matrimony sites which let others rate them based on a few factors out of 10, like - how keen to meet?, how prompt was their communication. When I am presented with random profiles and I spent hours each week to send requests, It would help me to send requests after knowing how much on a scale of 10 are they likely to reply to my request, and make a more conscious decision.
2. It's very upsetting to see that out of thousands algorithm available yet I'm **unable to find my match**.
3. **Higher salary expectations** from bride and sub-caste preference.

4. *It appears that both sides (myself included) on matrimonial websites have exceedingly **high expectations making it difficult to find matches**. Many people whom I message don't respond at all and I suspect a lot of the accounts are dormant.*
5. *Got about 20 great matches through matrimonial site. Me and my family are currently in the process of contacting them. Most of the responses are warm and welcoming. Some matches may not call us after the initial contact. Arranged marriage is a time consuming process. But I hope to find a suitable partner soon.*
6. ***So many fake profiles**; need to give verification through passport or Aadhaar (Identity card for Indians).*
7. *It's not that helpful and personally I don't **trust** people I meet on matrimonial sites. There are a lot of scammers out there, if we're into AM (arranged marriage) we ought to, from (approach) relatives. So if anything goes wrong, at least you know the family.*
8. *It sucks, **feels inauthentic and inhuman**, better meet people in real life.*
9. *People generally are **not serious and honest on these sites** and there are many **fake people** there who spoil the image of online life partner hunting.*
10. *Most of the people I express interest **do not respond**.*
11. ***It made me depressed**. My job, my salary, and my looks **were not upto the expectations of thousands of women and their parents** who did not even try to get a well earning job. The bride's side is expecting a living **ATM machine** with full hair, bright complexion, and huge social status, whereas the bride to be does not even have a proper job. I hated every second of it.*
12. *Although I get matches, I can't communicate with them because neither of us have premium (membership that allows members to view and contact each other).*

Analyzing the Comments of the Respondents

A total of 13 full-fledged comments from female respondents and 12 from male respondents have been laid out and examined. Based on the comments received from female respondents, it can be stated that in general, majority of the female respondents who commented are dissatisfied with matrimonial services. Three of the thirteen comments from the female respondents indicated that they were unhappy with the excessive involvement of the would be groom's parents. However, the quantitative results in table 8 indicate that a higher percentage of female respondents than male respondents were likely to have their parents/siblings/friends manage their matrimonial account. Two respondents felt that they were under pressure to be more conservative in their outlook in order to please the groom's parents. Three female respondents also felt that it was uncomfortable to be contacted by irrelevant matches or being contacted through social media. As far as the male respondents were concerned, majority of the respondents also

expressed dissatisfaction with matrimonial sites. Three of the respondents stated that they were highly upset by the high expectations from them by the bride or the bride's family members. This is in line with the findings in tables 5, 6, and 7 in particular, which clearly indicate that female respondents do have higher expectations from the male counterparts compared to the expectations of male partners from their female counterparts. Female respondents expect their male partner to be more educated than themselves (table 5), earn a high income (table 6), and be settled abroad (table 7). Apart from this, female respondents also tend to expect their partner to be taller than them (table 4) and older than them (table 3).

Both female and male respondents expressed concerns about false information as well as false profiles on matrimonial sites. This is concerning because it increases the probability of fraud which are being regularly reported by the media (Hindustan Times, 2021; The Times of India, 2022; NDTV, 2022). The situation is such that the Delhi Commission for Women has recently issued a notice to matrimonial sites on this matter (India Today, 2022). Although there isn't any data available on who are more likely to be cheated on matrimonial sites, media reports suggest that women are more likely to be financially defrauded than men (Times Now, 2022; The Indian Express, 2022; The Times of India, 2022a; Times Now News, 2022; ANI News, 2022).

Discussion

Very little is known about partner preferences in arranged marriages and even less so when it comes to matrimonial sites. Although there have been a few studies conducted on matrimonial sites in recent years (Sharma et al., 2019; Bajnaid et al., 2019), there has always been a paucity of research examining both satisfaction with matrimonial sites and partner preferences on matrimonial sites. The present study aimed at filling this gap, especially in the Indian context. The quantitative data suggests that there is a greater pressure on male respondents to have higher educational qualifications, earn more money, and be settled abroad. The latter expectation of being settled abroad is possibly encouraging a great number of students, especially young males to migrate to western countries and to find a pathway to citizenship. This possibility is supported by research that indicates that Indian male students who migrate to the west are more likely to do it for long term migration compared to Indian female students (Bajnaid et al., 2019).

On the other hand, the comments from the female respondents indicate that they face a different type of pressure on matrimonial sites such as the expectation to be more traditional in their outlook. Both

groups were mostly dissatisfied with matrimonial sites as reflected through their comments as well as the quantitative data, wherein a greater number of people stated that they were dissatisfied than satisfied with the services of matrimonial sites. One of the other concerns was that paid membership did not bring in any major benefits to the members. Some registered members tend to contact possible matches through social media as one needs a premium membership to contact one through the matrimonial site or application itself and premium memberships can be expensive. This is also why many respondents who were once premium or paid members, do not opt for it again (table 1). The option to contact matches through social media once they view their full name combined with the fact that paid membership is expensive, appears to be driving members away from opting for paid membership again.

Overall, the finding that women tend to evaluate men largely on their socio-economic status is in line with evolutionary biology that has been observed in the case of dating sites as well (Abramova et al., 2016; Su & Hu, 2019;). This also includes the preference of female respondents for males who are more educated than them (Whyte & Torgler, 2017).

In that sense, there are some similarities between dating sites and matrimonial sites. Hypergamy is clearly prevalent in both platforms despite some studies suggesting that hypergamy is about to end (Esteve et al., 2012; Erát, 2021;). While discussing the issue of hypergamy, one has to also pay attention to other variables that contribute to its intensity in countries such as India. One such variable is the sex ratio. Despite a recent study indicating that the preference for male child has fallen by half in recent years (Kumari & Goli, 2022), there are more males than females in the country by a significant margin (Ministry of Health and Family Welfare, 2021). In the matrimonial context, this means that there are more men competing for women than the other way around. This puts tremendous pressure on men to improve their socio-economic status. The other factor that amplifies hypergamy is the nature of the matrimonial sites itself. It does not possess a personal touch that can generally be observed in face to face meetings. There is a mechanical feel to it due to its excessive focus on materialistic details. Other important factors such as similarities and differences with regard to personality, goals, and dreams are not highlighted.

The traditional and perhaps the original system of arranged marriage was based on familial ties, socio-economic status of the family, and the level of familiarity between the family of the bride as well as the groom. It was primarily based on mutual trust. Today, with the emergence of the modern matrimonial system, hypergamy has become the most powerful factor in determining partner preferences. One of the possible causal factors behind this could be the fact that both genders, and especially females, have the

freedom to at least take part if not entirely and independently choose their life partner. This improvement in the freedom of choice is certainly welcome.

Conclusion

The present study has led the researchers to two major findings

1. For a variety of reasons, both male and female respondents are more dissatisfied than satisfied with the services provided via matrimonial sites. This is borne out by both the quantitative as well as the qualitative data. The reasons for the dissatisfaction were wide ranging and differed between males and females. While female respondents were more disturbed about excessive parental involvement and irrelevant matches, male respondents were more demotivated by the higher expectations by the female respondents such as a higher income and education (hypergamy). Both male and female respondents were concerned about falsification of information on matrimonial sites.
2. The other major finding is that arranged marriage is taking a modern turn and has assumed some of the characteristics of modern dating sites which in turn is manifested through intense hypergamy. Social status is connected to financial and educational status (Buckley, 2016) and is often used as a marker for selecting a partner. The same has been observed in the present study as well. Hypergamy is a reality that cannot be wished away. However, based on the comments of some of the respondents, it appears that there is a growing concern about the business like nature of arranged marriage through matrimonial sites. There is excessive importance being given to the materialistic facets at the cost of other important variables such as personality compatibility and future plans. There is also a need to take greater efforts to filter fake profiles on matrimonial sites. Finally, the fact that people who had previously opted for paid membership are no longer willing to opt for it is an indication that the paid upgrades are not offering a satisfactory experience for the members. The need of the hour is for matrimonial sites to reduce their intense focus on economic variables and perhaps consider focusing on the other important factors that can help individuals find compatible partners. One such factor could be personality traits. There is evidence to suggest that the personality traits from the big five personality model, could have a significant influence on the relationships (Harris & Vazire, 2016). If indeed there is a scientific element that can be successfully used to predict the compatibility between two individuals, then matrimonial sites could consider emphasizing it. That being said, it has been observed that some matrimonial sites do survey members about some of their perspectives on the level of importance to be given to equality

in a relationship in terms of sharing of household responsibilities among other facets. This is a positive step towards recognizing that relationship compatibility is more complex than merely economic compatibility. However, a greater use of psychological tools such as the big five model could help members identify more compatible partners.

Limitations

The present study mainly focuses on the experiences of individuals who are registered on matrimonial sites. Therefore, based on the results of the present study, one cannot pass a judgement about the entire arranged marriage phenomenon. Even today, there are many who look for potential partners through relatives in the real world and their experiences might be completely different compared to those who are dependent on matrimonial sites although both eventually lead to an arranged marriage.

Statements and Declarations

Funding

The authors did receive any funding for carrying out the present study.

Declaration

The authors have no competing interests to declare.

Data availability

The data set associated with the present study is publicly available at 10.6084/m9.figshare.22640224.

References

- Abramova, O., Baumann, A., Krasnova, H., & Buxmann, P. (2016). Gender Differences in Online Dating: What Do We Know So Far? A Systematic Literature Review. *2016 49th Hawaii International Conference on System Sciences (HICSS)*, 3858–3867. <https://doi.org/10.1109/HICSS.2016.481>
- Allendorf, K., & Pandian, R. K. (2016). The Decline of Arranged Marriage? Marital Change and Continuity in India. *Population and Development Review*, 42(3), 435–464. <https://doi.org/10.1111/j.1728-4457.2016.00149.x>

- ANI News. (2022, August 21). *Man arrested for cheating women with fake profile on matrimonial site*. <https://www.aninews.in/news/national/general-news/man-arrested-for-cheating-women-with-fake-profile-on-matrimonial-site20221021185032/>
- Apostolou, M. (2017). Individual Mate Choice in an Arranged Marriage Context: Evidence from the Standard Cross-cultural Sample. *Evolutionary Psychological Science*, 3(3), 193–200. <https://doi.org/10.1007/s40806-017-0085-9>
- Asendorpf, J. B., Penke, L., & Back, M. D. (2011). From Dating to Mating and Relating: Predictors of Initial and Long-Term Outcomes of Speed-Dating in a Community Sample. *European Journal of Personality*, 25(1), 16–30. <https://doi.org/10.1002/per.768>
- Bajnaid, A., Alessandro Veltri, G., Elyas, T., & Masa'deh, R. (2019). Utilizing Matrimonial Web sites Among Saudi Users: An Empirical Study. *Digest of Middle East Studies*, 28(1), 164–193. <https://doi.org/10.1111/dome.12158>
- Baru, R. V., & Mohan, M. (2018). Globalisation and neoliberalism as structural drivers of health inequities. *Health Research Policy and Systems*, 16(1), 91. <https://doi.org/10.1186/s12961-018-0365-2>
- Bech-Sørensen, J., & Pollet, T. V. (2016). Sex Differences in Mate Preferences: A Replication Study, 20 Years Later. *Evolutionary Psychological Science*, 2(3), 171–176. <https://doi.org/10.1007/s40806-016-0048-6>
- Buckley, R. R. (2016). Hypergamy. In *Encyclopedia of Family Studies* (pp. 1–2). John Wiley & Sons, Ltd. <https://doi.org/10.1002/9781119085621.wbefs469>
- Buss, D. M., & Schmitt, D. P. (2019). Mate Preferences and Their Behavioral Manifestations. *Annual Review of Psychology*, 70(1), 77–110. <https://doi.org/10.1146/annurev-psych-010418-103408>
- Chakraborty, D. (2019). Components Affecting Intention to Use Online Dating Apps in India: A Study Conducted on Smartphone Users. *Asia-Pacific Journal of Management Research and Innovation*, 15(3), 87–96. <https://doi.org/10.1177/2319510X19872596>
- Chaudhary, M., Sodani, P. R., & Das, S. (2020). Effect of COVID-19 on Economy in India: Some Reflections for Policy and Programme. *Journal of Health Management*, 22(2), 169–180. <https://doi.org/10.1177/0972063420935541>
- Connelly, L. M. (2016). Fisher's exact test. *MedSurg Nursing*, 25(1), 58–60.
- Donner, H., & Santos, G. (2016). Love, Marriage, and Intimate Citizenship in Contemporary China and India: An introduction. *Modern Asian Studies*, 50(4), 1123–1146. <https://doi.org/10.1017/S0026749X16000032>
- Erát, D. (2021). Educational assortative mating and the decline of hypergamy in 27 European countries: An examination of trends through cohorts. *Demographic Research*, 44, 157–188.

- Esteve, A., García-Román, J., & Permanyer, I. (2012). The Gender-Gap Reversal in Education and Its Effect on Union Formation: The End of Hypergamy? *Population and Development Review*, 38(3), 535–546. <https://doi.org/10.1111/j.1728-4457.2012.00515.x>
- Franke, T. M., Ho, T., & Christie, C. A. (2012). The Chi-Square Test: Often Used and More Often Misinterpreted. *American Journal of Evaluation*, 33(3), 448–458. <https://doi.org/10.1177/1098214011426594>
- Graham, C. A., Štulhofer, A., Lange, T., Hald, G. M., Carvalheira, A. A., Enzlin, P., & Træen, B. (2020). Prevalence and Predictors of Sexual Difficulties and Associated Distress Among Partnered, Sexually Active Older Women in Norway, Denmark, Belgium, and Portugal. *Archives of Sexual Behavior*, 49(8), 2951–2961. <https://doi.org/10.1007/s10508-020-01742-7>
- Harris, K., & Vazire, S. (2016). On friendship development and the Big Five personality traits. *Social and Personality Psychology Compass*, 10(11), 647–667. <https://doi.org/10.1111/spc3.12287>
- Hindustan Times. (2021, December 14). *Cyber police arrest man from Goa for duping doctor of ₹21 lakh*. Hindustan Times. <https://www.hindustantimes.com/cities/mumbai-news/cyber-police-arrest-man-from-go-a-for-duping-doctor-of-rs-21-lakh-101639479195101.html>
- Idriss, M. M. (2022). Abused by the Patriarchy: Male Victims, Masculinity, “Honor”-Based Abuse and Forced Marriages. *Journal of Interpersonal Violence*, 37(13–14), NP11905–NP11932. <https://doi.org/10.1177/0886260521997928>
- Imbert, C., & Papp, J. (2020). Costs and benefits of rural-urban migration: Evidence from India. *Journal of Development Economics*, 146, 102473. <https://doi.org/10.1016/j.jdeveco.2020.102473>
- India Today. (2022, February 8). *Women's panel issues notice to matrimonial sites over cheating, harassment cases*. India Today. <https://www.indiatoday.in/cities/delhi/story/delhi-news-dcw-serves-notice-matrimonial-sites-cheating-harassment-incidents-1982923-2022-08-02>
- James, A. G., Rollins, A., & Roy, R. N. (2022). Special Section Conclusion: Future Directions of Multiracial Families. *Journal of Child and Family Studies*, 31(3), 735–739. <https://doi.org/10.1007/s10826-022-02270-9>
- Kim, H.-Y. (2017). Statistical notes for clinical researchers: Chi-squared test and Fisher’s exact test. *Restorative Dentistry & Endodontics*, 42(2), 152–155. <https://doi.org/10.5395/rde.2017.42.2.152>
- King, R., & Sondhi, G. (2018). International student migration: A comparison of UK and Indian students’ motivations for studying abroad. *Globalisation, Societies and Education*, 16(2), 176–191. <https://doi.org/10.1080/14767724.2017.1405244>
- Kumari, A., & Goli, S. (2022). Skewed child sex ratios in India: A revisit to geographical patterns and socio-economic correlates. *Journal of Population Research*, 39(1), 45–72. <https://doi.org/10.1007/s12546-021-09277-x>

- Miller, B., James, A., & Roy, R. N. (2022). Loving Across Racial Lines: Associations between Gender and Partner Race and the Health of Young Adults. *Journal of Child and Family Studies*, 31(3), 703–715. <https://doi.org/10.1007/s10826-022-02253-w>
- Ministry of Health and Family Welfare. (2021). *Update on Child Sex Ratio*. Update on Child Sex Ratio. <https://pib.gov.in/pib.gov.in/Pressreleaseshare.aspx?PRID=1782601>
- NDTV. (2022, November 8). *Man Rapes, Cheats Woman Of Rs 30 Lakh After Meeting Her On Matrimony Site: Cops*. NDTV.Com. <https://www.ndtv.com/india-news/man-rapes-cheats-woman-of-rs-30-lakh-after-friendship-on-matrimony-site-arrested-3501982>
- Newman, C. E., Prankumar, S. K., Cover, R., Rasmussen, M. L., Marshall, D., & Aggleton, P. (2021). Inclusive health care for LGBTQ+ youth: Support, belonging, and inclusivity labour. *Critical Public Health*, 31(4), 441–450. <https://doi.org/10.1080/09581596.2020.1725443>
- Parkin, R. (2021). Arranged marriages: Whose choice and why? Reflections on the principles underlying spouse selection worldwide*. *History and Anthropology*, 32(2), 271–287. <https://doi.org/10.1080/02757206.2021.1905255>
- Schwarz, S., & Hassebrauck, M. (2012). Sex and Age Differences in Mate-Selection Preferences. *Human Nature*, 23(4), 447–466. <https://doi.org/10.1007/s12110-012-9152-x>
- Shahbaz, M., Shahzad, S. J. H., Alam, S., & Apergis, N. (2018). Globalisation, economic growth and energy consumption in the BRICS region: The importance of asymmetries. *The Journal of International Trade & Economic Development*, 27(8), 985–1009. <https://doi.org/10.1080/09638199.2018.1481991>
- Sharma, V., Nardi, B., Norton, J., & Tsaasan, A. M. (2019). Towards Safe Spaces Online: A Study of Indian Matrimonial Websites. In D. Lamas, F. Loizides, L. Nacke, H. Petrie, M. Winckler, & P. Zaphiris (Eds.), *Human-Computer Interaction – INTERACT 2019* (pp. 43–66). Springer International Publishing. https://doi.org/10.1007/978-3-030-29387-1_4
- Singh, G., Pauranik, A., Menon, B., Paul, B. S., Selai, C., Chowdhury, D., Goel, D., Srinivas, H. V., Vohra, H., Duncan, J., Khona, K., Modi, M., Mehndiratta, M. M., Kharbanda, P., Goel, P., Shah, P., Bansal, R., Addlakha, R., Thomas, S., ... Wakankar, Y. (2016). The dilemma of arranged marriages in people with epilepsy. An expert group appraisal. *Epilepsy & Behavior*, 61, 242–247. <https://doi.org/10.1016/j.jybeh.2016.05.034>
- Srinivasan, R. (2021). BharatMatrimony.com. In R. Srinivasan (Ed.), *Platform Business Models: Frameworks, Concepts and Design* (pp. 117–124). Springer. https://doi.org/10.1007/978-981-16-2838-2_8
- Su, X., & Hu, H. (2019). Gender-specific preference in online dating. *EPJ Data Science*, 8(1), Article 1. <https://doi.org/10.1140/epjds/s13688-019-0192-x>

- The Indian Express. (2022, January 17). Pune: Conman dupes woman of Rs 62 lakh through fake profile on matrimonial site. *The Indian Express*. <https://indianexpress.com/article/cities/pune/pune-conman-dupes-woman-matrimonial-site-7726901/>
- The Times of India. (2022, August 2). Delhi: Woman, man arrested for cheating people by creating fake profiles on matrimonial sites. *The Times of India*. <https://timesofindia.indiatimes.com/city/delhi/woman-man-arrested-for-cheating-people-by-creating-fake-profiles-on-matrimonial-sites/articleshow/93304034.cms>
- The Times of India. (2022a-01-15). 'Scientist' seeking bride dupes 14 women of Rs 1 crore in Maharashtra. *The Times of India*. <https://timesofindia.indiatimes.com/city/thane/scientist-seeking-bride-dupes-14-women-of-1cr/articleshow/88906796.cms>
- Times Now. (2022, July 9). New Delhi: Man held for duping woman of Rs. 12 lakh posing as ITBP Assistant Commandant on matrimonial website. *TimesNow*. <https://www.timesnownews.com/mirror-now/crime/new-delhi-man-held-for-duping-woman-of-rs-12-lakh-posing-as-itbp-assistant-commandant-on-matrimonial-website-article-92771258>
- Times Now News. (2022, February 13). Mumbai: Conman poses as US national to dupe woman of Rs 45 lakh on matrimonial site. <https://www.timesnownews.com/mumbai/article/mumbai-conman-poses-as-us-national-to-dupe-woman-of-rs-45-lakh-on-matrimonial-site/858362>
- Walter, K. V., Conroy-Beam, D., Buss, D. M., Asao, K., Sorokowska, A., Sorokowski, P., Aavik, T., Akello, G., Alhababha, M. M., Alm, C., Amjad, N., Anjum, A., Atama, C. S., Atamtürk Duyar, D., Ayebare, R., Batres, C., Bendixen, M., Bensafia, A., Bizumic, B., ... Zupančič, M. (2020). Sex Differences in Mate Preferences Across 45 Countries: A Large-Scale Replication. *Psychological Science*, 31(4), 408–423. <https://doi.org/10.1177/0956797620904154>
- Whyte, S., & Torgler, B. (2017). Things change with age: Educational assortment in online dating. *Personality and Individual Differences*, 109, 5–11. <https://doi.org/10.1016/j.paid.2016.12.031>
- Yadav, P., Upadhyay, A., Prasath, V. B. S., Ali, Z., & Khare, B. B. (2021). Evolution of Wireless Communications with 3G, 4G, 5G, and Next Generation Technologies in India. In P. K. Mallick, A. K. Bhoi, G.-S. Chae, & K. Kalita (Eds.), *Advances in Electronics, Communication and Computing* (pp. 355–359). Springer Nature. https://doi.org/10.1007/978-981-15-8752-8_35
- Yagnik, J. (2014). *PSPP a Free and Open Source Tool For Data Analysis* (Working Paper No. 2014-03-21). Voice of Research. <https://econpapers.repec.org/paper/vorissues/2014-03-21.htm>
- Zucker, D. (2007). The Belmont Report. In *Wiley Encyclopedia of Clinical Trials*. John Wiley & Sons, Ltd. <https://doi.org/10.1002/9780471462422.eoct093>

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