



## A Study of Awareness about Artificial Intelligence among Youths in Karad City

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### **Abstract:**

*Artificial Intelligence (AI) has become a major technology affecting many parts of daily life, education, and work. How well young people understand AI is essential for preparing them for future opportunities and challenges. This study aims to assess the awareness of Artificial Intelligence among young people in Karad City. It looks at their basic knowledge of AI concepts, where they get their information, how they use AI applications, and how they view its benefits and challenges as future job opportunity creator. To gather primary data, we used a structured questionnaire with young people from various educational backgrounds. We gathered secondary data from books, journals, reports, and online sources. For data analysis, we used simple statistical tools like percentages, tables, and charts. The findings show that most young people know about commonly used AI applications like virtual assistants and recommendation systems. However, there is little awareness of more complex AI concepts and ethical issues. The study points out the need for more educational programs, workshops, and curriculum integration to improve AI literacy among youth. The results may help educators, policymakers, and institutions create effective strategies to promote responsible and informed use of Artificial Intelligence.*

**Keywords:** *Artificial Intelligence, Technology, Awareness, Opportunity Creator.*

### **Introduction:**

Artificial intelligence has become one of the most powerful technological systems. Artificial Intelligence (AI) refers to the development of computer systems that can carry out tasks usually associated with human intelligence, like learning, reasoning, making decisions and problem solving. The goal of Artificial Intelligence (AI) is to create smart systems that can handle hard tasks and make smart systems. Artificial intelligence has expanded different types such as education, healthcare, business, communication and entertainment. Artificial Intelligence is designed to assess students' progress.

Artificial intelligence was first introduced by John McCarthy. John McCarthy is the father of Artificial intelligence. The impact of artificial intelligence on youths has two sides. On one side, Artificial Intelligence creates new opportunities to

improve educational skills and second is open up new career opportunities such as data science, robotics and machine learning. It helps young people connect globally Artificial Intelligence plays a significant role in the daily lives of young people. It affects their education, career chances, physical health, and mental health. The rise of AI-powered apps, social media, wearable devices, and healthcare technologies is impacting the well-being of today's youth in both good and bad ways. Youngers are finding opportunities in AI related industries. The purpose of this study on AI's effects on young people is to investigate how this technology is influencing their social lives, careers, education, and general development. We can better prepare the next generation to use AI responsibly. One of the biggest impacts of AI on young people is in education.

**Review of Literature:**

Mr. Vishal Kumar, research titled, Impact of Artificial Intelligence on Adolescents explained difference between how boys and girls use artificial intelligence, especially when they consider the various reasons behind their choices in different situations. Giovanelli (2023) had conducted research that highlighted the significant role artificial intelligence plays in assessing, modeling, and developing new treatments, as well as improving existing ones for teenagers. Das, S., & Pradhan, B. (2021): The Role of AI in Addressing Mental Health Challenges in Rural India. This research presented the implementation challenges specific to rural settings, poor internet connectivity, low digital literacy, language and cultural adaptation, data privacy concerns, algorithmic bias, and the need for clinical oversight. Anil S. Deshpande tried to explain Impact of AI on Education Navigating the challenges of using AI in education is no small feat, but it's a journey worth embarking on. AI is transforming education in a variety of ways, from personalized learning to administrative automation to improve virtual learning. As AI technology continues to evolve, the possibilities for using it in education is virtually limitless. Dr. Kanchan Shukla (2024), studied Impact of Artificial Intelligence among Youth specially on teenagers today. It opens up exciting opportunities but also brings its own set of challenges. By embracing the potential of AI, young people can enjoy enhanced learning experiences, discover new career paths, and actively participate in shaping the future.

**Statement of Problem:**

Artificial intelligence (AI) has become increasingly integrated into daily life, influencing how individuals learn, communicate, work, and engage with the world. Youths, being the most active users of digital technologies, are

particularly exposed to AI through social media algorithms, educational platforms, entertainment systems, and emerging tools like generative AI.

This study aims to explore and analyze the multifaceted impact of artificial intelligence on youths, focusing on both the positive and negative outcomes. It aims to provide evidence-based insights that can inform responsible use, regulation, and education strategies to guide the younger generation in an increasingly AI-driven world. By keeping above all in mind the present study is entitled Impact of Artificial Intelligence on Youths in Karad City.

**Objectives:**

1. To study the awareness about AI among youth.
2. To know perception of youth regarding AI created career opportunities.

**Research Methodology:**

The research will take on a mixed-methods approach, blending both quantitative and qualitative strategies. For the quantitative part, we'll look at patterns, frequency, and levels of AI usage among young people, along with how they perceive its effects. On the qualitative side, we gain deeper into the experiences, attitudes, and concerns that youths have about AI. Youths aged 16-29 years are considered as population for the study. The group is selected because they are the most active users of digital tools and are directly affected by the educational, social, and career changes brought by AI. Simple random sampling method based on convenience is used for data collection for the study. A sample of 100 respondents for surveys is selected for the study. Primary data is collected by using structured question and interviews of AI users. Whereas secondary data is collected through existing literature, reports, academic journals, and policy documents related to AI and youth. The collected

data is analyzed using descriptive statistics such as frequency, percentages, mean etc.

### Data analysis and Discussion:

#### 1. Awareness of AI among Respondents:

With the objective of assessing the respondents' awareness of AI, they were asked whether they had any knowledge about AI. Five options were provided as answers to this question. Based on the significance of these options, 'Not Aware' was assigned a weight of 1, 'Slightly

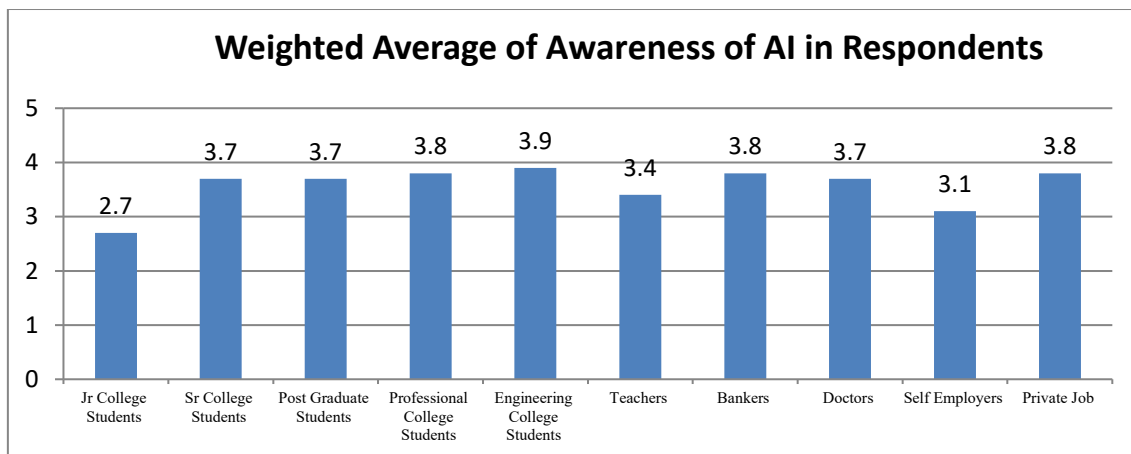
Aware' was assigned 2, 'Moderately Aware' was assigned 3, 'Aware' was assigned 4, and 'Very Aware' was assigned 5. The weighted average was obtained by multiplying the weight and frequency, summing the results, and then dividing by the total frequency. This information is presented in the table below.

**Table No. 1 Awareness of AI among Respondents**

Sr. No.	Category of Respondent	Weighted Average
1	Jr College Students	2.7
2	Sr College Students	3.7
3	Post Graduate Students	3.7
4	Professional College Students	3.8
5	Engineering College Students	3.9
6	Teachers	3.4
7	Bankers	3.8
8	Doctors	3.7
9	Self Employers	3.1
10	Private Job	3.8

(Source: Data Compiled by Researcher)

**Graph No. 1 Awareness of AI in Respondents**



Above table and graph show awareness of AI among respondents. The weighted average for all 10 categories ranges from 2.7 to 3.9. The lowest weighted average is 2.7 for junior college students, which is close to 3 (Moderately Aware). This means that junior college students are moderately aware of AI. The weighted averages for senior college students (3.7), postgraduate students (3.8), professional college students (3.9),

and engineering students (3.9) are all greater than 3 and close to 4, indicating that these students are aware of the use of AI. To assess the awareness of AI among working professionals, data was collected from a total of 50 people across five different categories. These categories included teachers, bankers, doctors, private sector employees, and self-employed individuals. A weighted average was calculated for them based

on the aforementioned parameters. The weighted averages were 3.4 for teachers, 3.5 for bankers, 3.7 for doctors, 3.8 for private sector employees, and 3.1 for self-employed individuals. This indicates that awareness about AI has also increased among working professionals, and they are using it extensively. If we consider the overall weighted average across all categories, it comes out to 3.56, meaning the weighted average is greater than 3 and less than 4. This indicates that, considering all the respondents, everyone is aware of the use of AI and knows how to use it.

**Table No. 2 Perception about Career opportunities**

Respondents	Perception about Career opportunities
Jr College Students	3.4
Sr College Students	3.6
PG Students	3.8
Professional College Students	4.3
Engineering College Students	4.5
Teachers	2.1
Bankers	2.2
Doctors	3.1
Self Employers	2.3
Private Job	2.2

(Source: Data Compiled by Researcher)

The table above clearly shows that all students agree that AI will create a large number of employment opportunities in the future. In particular, professional and engineering students seem to believe that they will receive a large number of job opportunities. This is evident from the weighted average of their responses, which is 4.3 for professional students and 4.5 for engineering students, both very close to 5. This means that these students strongly agree that AI will create jobs in the future. The opinion of the

#### Findings:

- AI-powered learning platforms and apps offer personalized learning experiences, allowing students to learn at their own speed.
- The impact of Artificial Intelligence on young people is multifaceted. On one side it opens

#### 2. Perception about Career opportunities:

To understand the respondents' perceptions regarding the impact of AI on employment, they were presented with the statement, "AI will create a large number of job opportunities." They were given five options to respond, and these five options were assigned weights from 1 to 5 according to their importance. A weighted average was calculated from the collected data. The weighted average for the ten categories is presented in the table below.

business and working-class regarding AI creating job opportunities appears to be negative. The weighted average for teachers (2.1), self-employed individuals (2.3), and private sector employees and bankers (2.2) reflects this. This suggests that they believe AI is more likely to reduce job opportunities in their respective fields rather than create them. Although the opinion of doctors on this matter is somewhat positive (3.1), it is not as positive as that of the students.

- up doors to better education, job prospects, and a chance to connect with the world.
- AI is making waves in the healthcare world by helping with early diagnoses and treatment suggestions.
- There are mobile health apps that use AI to assist young people in keeping track of their

exercise, diet, and sleep habits, all while promoting healthier living. Fitness and Lifestyle Tracking like smart watches equipped with AI, encourage young folks to keep moving by monitoring their heart rate, steps, workout routines, and overall well-being.

- On the other side, it brings along challenges like job loss, digital addiction, and tough ethical questions.
- Most of the students are aware about the use of AI, where as professionals are using it for reduce their efforts do work.
- In general, the student community views AI as an opportunity, the business and working class seem to view AI as a threat.

#### Suggestions:

- To make the most of the advantages while reducing the downsides, it's crucial for young people to be guided in using AI wisely.
- Meanwhile, policymakers and educators should concentrate on equipping them with the skills, awareness, and opportunities that prepare for the future.
- It's essential for young people to not only grasp how to use AI but also to wield it responsibly. This means developing digital skills, staying updated on the latest trends, and thinking critically about how technology influences their lives.
- The impact of AI is that some of the tedious or dangerous tasks are replaced by AI

technology and the human workforce is given the opportunity to dedicate their time to tasks that are more closely aligned with their skill set.

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