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A Study on the Impact of Artificial Intelligence on Daily Life

Miss. Papal Aditi Balasaheb[1] and Mr. Pravin S. Pawade[2]
MCA Student[1]
Assistant Professor[2]
Agasti Institute of Management, Computer Application and Research (AIMCAR), Akole
papaladiti430@gmail.com and pravin.pawade123@gmail.com

Abstract: *Artificial Intelligence has rapidly transitioned from experimental computation into a foundational pillar of modern society, fundamentally transforming how individuals manage daily routines, professional workflows, and personal decision making. Although intelligent software systems and generative algorithms deliver substantial efficiency gains, their widespread deployment introduces complex sociotechnical concerns, including data privacy vulnerabilities, security risks, cognitive dependency, and heightened psychological stress. To investigate these multidimensional shifts, this study evaluates current patterns of AI adoption and assesses its direct consequences on daily life and task execution. Employing a rigorous mixed methods research design that combines empirical survey data from one hundred participants with statistical analysis, the investigation illuminates the delicate balance between technological convenience and systemic risk. The findings suggest that while users overwhelmingly report significant time savings and operational speed, persistent anxieties regarding data protection and employment stability remain prevalent. Ultimately, this paper advocates for the establishment of ethical, human centric frameworks that foster digital well being alongside technological advancement.*

Keywords: Artificial Intelligence, Daily Life Impact, Digital Well being, Automation, Cognitive Dependency, Empirical Study.

I. INTRODUCTION

During the past decade, Artificial Intelligence has evolved from specialized laboratory research into an omnipresent infrastructure governing daily human existence, as noted by Russell and Norvig in their foundational studies. Intelligent software applications, recommendation engines, and automated productivity suites now dictate information access, streamline administrative duties, and reshape educational experiences following insights from the McKinsey Global Institute. Across diverse populations, students and professionals increasingly depend on algorithmic tools to optimize complex tasks and manage heavy workloads according to Dwivedi and colleagues.

Nevertheless, this pervasive digital integration prompts profound ethical, psychological, and sociological inquiries, highlighted by Floridi and researchers. As machine automation assumes greater responsibility for human cognitive functions, emerging vulnerabilities, such as diminished critical thinking, psychological complacency, and data privacy threats, demand rigorous examination as outlined by the National Institute of Standards and Technology. Furthermore, the pressure to maintain constant operational parity with automated systems frequently induces cognitive fatigue and professional anxiety as documented by Gmyrek and coworkers.

This research systematically investigates the influence of AI applications on everyday life, assessing user perceptions regarding productivity enhancement, time saving attributes, security apprehensions, and psychological adaptation. By synthesizing primary empirical metrics with contemporary scholarly literature, this study bridges the analytical gap

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between rapid technological adoption and sustainable human well being, supporting conclusions presented by the Stanford Institute for Human Centered Artificial Intelligence.

II. RESEARCH METHODOLOGY

To capture a holistic understanding of societal digital footprint, this study adopted a mixed methods research framework integrating qualitative respondent narratives with quantitative statistical evaluations. Data collection was executed using structured digital questionnaires administered via Google Forms, focusing on usage frequency, perceived task convenience, productivity shifts, and security concerns based on one hundred primary survey responses.

The target sample comprised one hundred active participants, including students, corporate employees, and independent business owners. Data processing, including cleaning, tabulation, and graphical generation, was performed utilizing Microsoft Excel and Python analytical libraries in accordance with international governance standards established by the OECD. Strict ethical protocols guaranteed participant anonymity, voluntary involvement, and data confidentiality throughout the study as required by the European Commission.

III. DATA ANALYSIS AND FINDINGS

Empirical evaluation of the survey data indicates widespread and intensive engagement with AI enabled platforms. A majority of respondents fall within the 18 to 25 age bracket, accounting for seventy two percent of submissions, representing digital native students and early career technologists actively integrating automation into their daily routines as observed by Funk and colleagues.

3.1 Adoption Frequency and Task Efficiency

Survey metrics demonstrate that fifty seven percent of participants utilize AI applications on a daily basis, while twenty five percent engage with them weekly, underscoring their entrenchment in modern lifestyles according to recent OECD guidelines.

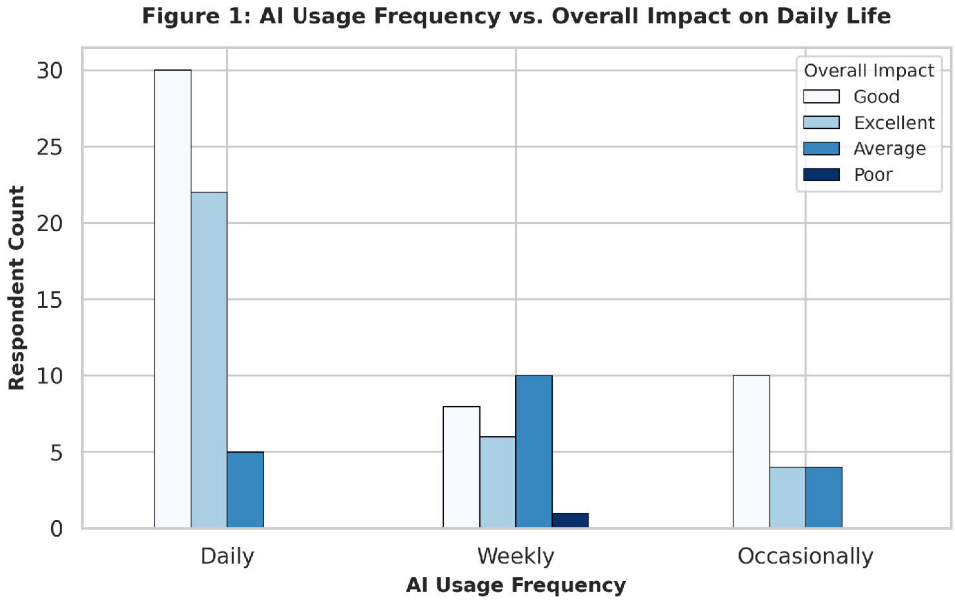


Figure 1: AI Usage Frequency vs. Overall Impact on Daily Life

To measure operational utility, multiple Likert scale dimensions were analyzed. Table 1 outlines the distribution of respondent attitudes concerning core efficiency metrics across the sample cohort.

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Evaluation Metric / Question	Strongly Agree / Agree	Neutral	Disagree / Strongly Disagree
AI helps me complete tasks faster	85.0%	13.0%	2.0%
AI improves my productivity	26.0%	29.0%	19.0%
AI saves your time	85.0%	13.0%	2.0%
AI makes daily life more convenient	69.0%	27.0%	4.0%
AI reduces human effort	45.0%	28.0%	15.0%

As illustrated in Table 1, eighty five percent of respondents agree or strongly agree that AI accelerates task execution and preserves valuable time. Additionally, sixty nine percent report enhanced daily convenience, and forty five percent perceive a reduction in overall human effort. Conversely, metrics evaluating direct productivity enhancement and labor reduction display substantial neutral and dissenting responses, highlighting that automated systems often introduce secondary coordination and verification overhead as discussed by the McKinsey Global Institute.

3.2 Behavioral and Psychological Dimensions

The integration of intelligent algorithms substantially influences cognitive habits and individual stress thresholds according to Kasneci and researchers. Correlational analysis between usage frequency and overall perceived life impact indicates that while frequent users experience clear utilitarian benefits, underlying apprehensions remain significant as demonstrated by Zawacki Richter and colleagues.

Figure 2: Distribution of Biggest Concerns Regarding AI

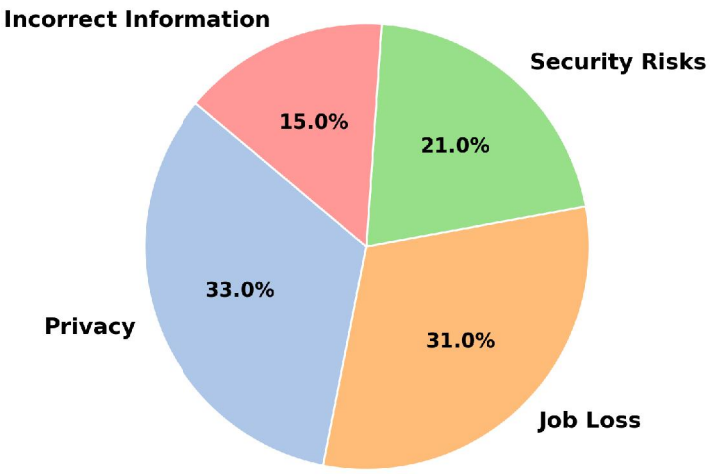


Figure 2: Distribution of Biggest Concerns Regarding AI Integration

Primary concerns center heavily on data confidentiality and security risks, cited by thirty three percent of respondents as illustrated in Figure 2, closely paralleled by anxieties regarding job displacement at thirty one percent, technical security vulnerabilities at twenty one percent, and the proliferation of inaccurate or biased outputs at fifteen percent following findings by Bender and coworkers. These findings emphasize that public perception of AI is characterized by a persistent tension between operational utility and socio technical risk as established by Jobin and researchers alongside Acemoglu and Restrepo.

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IV. DISCUSSION

The empirical findings underscore a complex dynamic between high technological exposure, perceived efficiency gains, and psychological pressure documented by Topol. While users universally appreciate algorithmic assistance for routine data processing and task acceleration, unresolved fears regarding privacy violations and employment security suggest that technological deployment currently outpaces institutional safeguards as highlighted by UNESCO and the OECD.

From a scholarly perspective, these results highlight the critical danger of cognitive offloading, where over reliance on automated tools progressively erodes independent analytical problem solving capabilities according to National Institute of Standards and Technology publications. Implementing structured digital hygiene and robust ethical boundaries is vital to counter these long term risks as outlined by the European Commission.

V. SUGGESTIONS AND RECOMMENDATIONS

Drawing upon empirical survey metrics and established international governance frameworks, the study proposes the following actionable recommendations:

1. Foster Collaborative Augmentation: Individuals should utilize AI systems as supportive collaborative instruments rather than absolute substitutes for independent human critical reasoning following Russell and Norvig.
2. Enforce Strict Data Governance: Software developers and regulatory bodies must institute rigorous data protection protocols to mitigate growing user apprehensions regarding privacy breaches as recommended by the National Institute of Standards and Technology.
3. Integrate Algorithmic Literacy: Educational institutions must embed digital ethics, critical evaluation, and AI literacy modules into standard academic curricula in alignment with Kasneci and colleagues.
4. Promote Intentional Offline Intervals: Users should establish dedicated screen free periods to alleviate cognitive fatigue and preserve psychological well being in hyper connected environments as advocated by UNESCO.

VI. CONCLUSION

In summary, this empirical study confirms that Artificial Intelligence exerts a profound, measurable influence on daily life, task efficiency, and psychological equilibrium as reported by the McKinsey Global Institute. Although high adoption rates and positive satisfaction ratings highlight the immense utility of intelligent applications, significant anxieties regarding data privacy, economic displacement, and cognitive dependency necessitate proactive intervention according to OECD reports. By cultivating balanced digital habits, ethical awareness, and supportive institutional frameworks, society can successfully harness the transformative capabilities of AI while safeguarding human agency and long term well being as envisioned by the Stanford Institute for Human Centered Artificial Intelligence.

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