AI FOR PSYCHOLOGICAL PROFILES: ADVANCES, CHALLENGES, AND FUTURE DIRECTIONS

IA PARA PERFILES PSICOLÓGICOS: AVANCES, DESAFÍOS Y DIRECCIONES FUTURAS

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AI for Psychological Profiles: Advances, Challenges, and Future Directions

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ABSTRACT

This paper assesses Artificial Intelligences in the development of psychological profiles where it has prospects in clinical examination, therapy of mental disorders, and description of behavior. Yet, in the adoption of AI in the field of psychology, there are corresponding challenges to it. Issues include ethical questions in, data protection, and the transparency of the created models. This paper lays down these issues, the advantages and efficiency of employing AI solutions in profiling psychology, and possible recommendations for the further studies and research that could overcome current deficiencies. The literature review and systematic study, shows the author’s goal as to clarify the current trends and possible development of AI in psychological profiling, focusing on possible interdisciplinary cooperation and the importance of ethical regulation for achieving the best result.

Keywords: artificial intelligence, psychological profiles, machine learning, mental health, data analysis

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RESUMEN
Este artículo examina la IA en el desarrollo de perfiles psicológicos donde tiene perspectivas en el examen clínico, la terapia de trastornos mentales y la categorización del comportamiento humano. Sin embargo, en la adopción de tecnologías automatizadas en el campo psicológico, existen desafíos correspondientes, como cuestiones éticas, protección de datos y transparencia de los modelos creados. Este artículo explora estas cuestiones, las ventajas y la eficiencia de emplear soluciones de IA en la elaboración de perfiles psicológicos, y posibles recomendaciones para los estudios e investigaciones adicionales que podrían superar las deficiencias actuales. En esta revisión bibliográfica y estudio sistemático, el objetivo del autor es esclarecer las tendencias actuales y el posible desarrollo de la IA en el perfil psicológico, centrándose en la posible cooperación interdisciplinaria y la importancia de la regulación ética para lograr mejores resultados.

Palabras clave: inteligencia artificial, perfiles psicológicos, machine learning, salud mental, análisis de datos

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INTRODUCTION

Crossing the field of Artificial Intelligence with the field of psychology has been a breakthrough for studying humanity. With improved advancements in the area of AI the development of psychological models has been made easier so they are used in numerous cases from clinical assessments for patients in the form of assistance (Russell & Norvig, 2021). This paper aims to establish a review on how artificial intelligence is being used in developing psychological profiles as well as the milestones, the drawbacks, and the prospective future concerning this research line.

It is imperative to estimate the importance of the application of AI solutions in the sphere of psychological profiling. Previous approaches to psychological assessment had been done and for all their functionality, have been predominantly employed to have certain drawbacks that are connected to the time it takes for the assessment. This as well as to the fact that they are administered by people who may have a personal bias stake in the results. AI, on the other hand, has the capability to provide a more accurate, less labor intensive, and more detailed approach towards the analysis of such datasets. AI harnesses raw data and high-level computational analysis to reveal correlations and associations that may be difficult to discern by clinicians and therapists, which allows for gaining a better understanding of the individual abut also the collective behavioral responses (Esteva et al., 2017). The area which benefits the most from the use of AI in psychological profiling is mental health, AI can interpret different types of data (textual and natural/organic), coming from social networks or related to the speaker’s intonation and voice, as well as other physiological signs to determine the mental condition of the person. For example, in their studies, Reece et al., (2017) and Settanni et al. (2018) & O’Connor (2016) have designed classifiers for the detection of the huge signs of depression and anxiety and social media activities to take early interventions.

Through better computational and AI-related tools, psychologists and psychiatrists are now employing them with unprecedented success to diagnose and develop treatment plans for patients (Esteva et al., 2017; Topol, 2019).

While there has been progress in conflict resolution and the enhancement of Artificial Intelligence in psychological profiling, this comes with challenges.
The first and one of the most significant issues that can be pointed at is the ethical aspect of AI functioning and its capabilities with regards to analyzing relevant personal data. It will be essential to consider such values as privacy, consent, and data security primarily based on the type of information related to psychology we are dealing with. It is therefore up to the researchers and practitioners to interact with these categories for ethical considerations in order to avoid negative consequences of failing to do so (Floridi et al., 2018). Furthermore, the specificity and certainty of AI models depend on the quantity and variety of data that has been inputted into the system. For instance, data elicitation can result in a prejudiced outcome, which is unadvisable in a psychological setup (Mehrabi et al., 2022; Obermeyer et al., 2019).

The final contentious topic is the explanatory AI models. For psychological applications of AI these aspects may be useful, but the main strength of AI relays on the accuracy of predictions, and in the actual reasoned explanation of these predictions. While, Black-box decision making approaches, only provide limited insights on the rationale behind a given decision, can cause issues of mistrust and acceptance among practicing clinicians and patients alike (Doshi-Velez & Kim, 2017; Ribeiro et al., 2016). Constructing AI models that can actually suggest reasons for the choices made are critical for the overall utilization of these approaches in psychology.

AI is also applicable in psychological profiling especially in treatment of mental health conditions or disorders. Therefore, the individualized treatments, which are oriented on the specific needs of clients, have been found to provide favorable outcomes in addressing common mental health disorders. AI systems can use psychological tests and questionnaires to recognize a client’s psychological characteristics, suggest treatments, and track clients’ changes to modify the treatment accordingly at once. Through such interaction and real-time monitoring, it delivers improved mental health treatments (Guntuku, et al., 2019; Topol, 2019).

In addition, since AI models can deal with a vast amount of data, these can quickly and easily segregate between one and the other and find patterns of behavior that are not easily recognizable. For instance, in mental health, AI can determine when a patient is developing drastic behavioral or emotional issues which require attention (De Choudhury et al., 2013).
Therefore, it could be stipulated that to be proactive and increase the likelihood of a positive mental health with the use of AI technologies problems are tackled before they reach a critical level. However, is the effective use of AI in psychological profiling that need to be worked on with the assistance of IT professionals in conjunction with mental health professionals. This would allow interdisciplinary teams to design AI tools based on theoretical knowledge and implementation of psychological concepts and protocols. It can also assist in resolving the ethical and practical questions related to the use of AI solutions in psychology and making sure that the usage of AI instruments in psychology is both potential and moral.

This paper aims to address the following research question: What are the most accurate methods that can be employed to assess psychologically correctness and ethical personal profiles? In providing an answer to this question, the paper will briefly look at the modern developments in AI technology for psychological profiling, some of the case studies, as well as empirical evidence found on the same subject matter, and then look at some of the challenges and even the ethical issues that arise from the use of AI in profiling. In doing so, it is the intention to give an overview of the state of affairs regarding the applicability of AI in this field and point to ensuing research and practice implications for what remains to be done or as what should be avoided.

**Literature review**

The rise of social media platforms has brought in a new era of digital interaction, providing unprecedented opportunities for psychological research. Social media language analysis has emerged as a potent tool for predicting psychological traits and health outcomes. For instance, Eichstaedt et al., (2015) demonstrated that psychological language used on Twitter could predict county-level heart disease mortality, showcasing the potential of social media data to reflect broader health trends. These profiles are very helpful for explaining the individuals’ behaviour, for diagnosing mental disease, and for creating tailored prevention and treatment plans. Some of the trends had been shown as follows; the realization of these developments has been aided by essential emerging AI techniques like machine learning and deep learning (Russell & Norvig, 2021).

The relevance of AI over the history, the fundamental approaches of AI, the uses of AI, the pros and cons of using AI, the future of AI, especially in the profiling of individuals psychologically.
Moreover, in a study, Kosinski, Stillwell, and Graepel (2013), stated that computers infer personal attributes from digital signatures of behaviours, thus the firms get an opportunity to forecast people’s personalities from the activity demonstrated on social media. Another study which further elaborated on this idea was conducted by Schwartz et al., (2013) to analyses personality, gender, and age relying on language used on social media through an open-vocabulary; authors have found complex correlations between language used and several personality traits.

Based on this, Park et al., (2015) established techniques for the efficient identification of personalities from the language used in the social media accounts with excellent convergence when compared with the conventional personality tests. In like manner, Youyou, Kosinski, and Stillwell (2015) noted that, as compared to the human judgment, computer-based personality judgments were more accurate, as this stressed on the exactness of digital assessment.

In terms of practical applications, Kern et al., (2019) illustrated how social media-predicted personality traits and values could help match individuals to their ideal jobs, demonstrating the utility of these predictions in real-world settings. Additionally, Guntuku et al., (2019) conducted an observational study on Twitter to study expressions of loneliness, providing insights into the emotional states of users based on their social media activity.

Furthermore, Gratch et al., (2014) sought to understand how social interaction in clinical interviews could be affected by interaction with an agent; results showed that interaction with computerized agents could elicit significant psychological responses. Kosinski et al. (2014) identified a connection between the user personality and websites choice and activity on online social networks; thus, strengthening the association of psychological characteristics with the digital behaviour.

The motives that underpinned blogging and how these are linked to personality were studied by Gill, Nowson, and Oberlander (2009) whose work showed Blog post content and authors’ personality were correlated.

Building on this line of investigation, Schwartz et al. (2013) examined personality implications from the language and proposed that it was possible to gain significant psychological understanding. Kern et al., (2014) used an open vocabulary approach of social media self and observed that the language used in social media is related to different personality dimensions. According to Settanni, (2018) in a meta-
analysis, this methodology was upheld on how digital traces predict specific attributes on social media account.

Thus, opening a view to one of the most prominent areas that has been explored: detection of mental health through social networks. In their systematic paper on detecting depression and mental illness on the social media sites, Guntuku et al. (2017) urged the possibly of using the social media for spying or monitoring of mental health. De Choudhury, Counts & Horvitz (2013) employed a qualitative observation of the postpartum changes in feelings and behaviours using sites, and therefore making a claim for how data collected digitally can be instrumental in tracking, more so changes on the psychosocial aspect.

Similarly, the detection of mental health issues using features from SM has also been a popular area of study. Guntuku et al., (2017) shared an integrative review of experiments on detecting Depression and Mental Illness on social media which is another critical paper pointing towards the capabilities of SM for mental health surveillance. To the same extent, De Choudhury, Counts, and Horvitz (2013) also used social media data to predict the postpartum changes of emotions and behavioural traits.

The general benefits and effects of internet-based research specifically to the field of psychology were discussed by Gosling and Mason (2015) who stressed on the significance and possibilities of online data. Tadesse et al., (2019) described ways of identifying new sources, such as posts about depression on Reddit, which proved the multifunctionality of social networks in psychological research.

Self-ascribed diagnostic language in Coppersmith et al., (2015) define the way people with mental health conditions describe their state on social media, including Twitter. Last but not least, Mowery et al., (2017) also took a corpus-based approach to investigate the use of Twitter for exploring depressive symptoms and psychosocial stressors towards embracing the relationship between SML and users’ psychological situation.

Modern machine learning technique used in healthcare is deep learning and Esteva et al. (2017) underscored the electric application in mental health. They indicated that DL enables the analysis of an e-record, medical image, etc., to determine the patient’s mental condition They pointed out that such models may offer a better decision to clinicians and a treatment plan according to the patient’s condition (Esteva et al., 2017). However, Youyo et al., (2015) clearly substantiate the extent of the importance
of deep learning and the precise identification of emotions in psychological assessments stating that deep learning has a great extent of value in psychological analysis.

METHODOLOGY

The overall approach used in this study is the systematic review method since it provides the framework for the review of the literature focusing on the use of AI in constructing psychological profiles. Unlike a primary study, this study will not aim at producing new data instead it will collect and synthesize data that has been produced in previous research studies with a comparison of result and conclusions.

Research Design

This study proposes a Systematic review and Meta-Analysis for studies in which the use of AI technologies had been tested in real world applications. This approach is made with the aim to integrate various existing methods, passing key conclusions and searching for further gaps; therefore, this research is presented as follows:

1. **Literature Search and Selection:** The first step of the systematic review and meta-analysis in this study aims at identifying the relevant study based on the following questions: Is AI a good a reliable indicator for psychological profiling and would the models possess a significant (above 70 percent) accuracy rate?

2. **Data Extraction:** Identifying the findings of the chosen articles and outlining key contributions.

3. **Review Analysis:** Drawing data and comparing it with data gathered from other research studies.

4. **Synthesis and Interpretation:** A method of evaluation of accuracy based on conclusion and results provided in the papers.

Literature Search and Selection

The author of this paper conducted a keyword search in the academic databases like SCOPUS, PubMed, IEEE Xplore, and Google Scholar to gather the studies. The search terms include: Artificial intelligence in Psychology, Predictive technological models for human traits, online predictors for human behavior. With the use of search engines search different academic databases such as Scopus, PubMed, IEEE Explores, and Google Scholar was performed. The keywords used were AI in psychological profiling, artificial intelligence for mental health diagnosis, deep learning in mental health assessment, and machine learning and mental health with the following inclusion criteria:
Peer-Reviewed Articles: No non peer reviewed journal articles and conference papers were included. (Only empirical journal or data to arrive at conclusions)

Publication Date: From 2010 up till 2023 there were certain noteworthy research articles published.

Language: Articles that are ≤ 10 years old and in English.

Relevance: This involves works that cover the subject of psychological profiling and the diagnosis of mental health disorders using artificial intelligence methodologies.

Exclusion Criteria:

- Non-Academic Sources: Leave out newspapers, editorials and other publications not published in peer reviewed magazines and journals.
- Irrelevant Focus: Research investigations that are not associated with the use of artificial intelligences in psychological profiling, or papers that may pertain to the uses of AI in other fields.

RESULTS

Table 1
Analysis of Predictor Factors, Benefits, and Degree of Accuracy for AI in Psychological Profiling

<table>
<thead>
<tr>
<th>Study</th>
<th>Predictor Factors</th>
<th>Benefits</th>
<th>Degree of Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eichstaedt et al. (2015)</td>
<td>Psychological language on Twitter</td>
<td>Predicts county-level heart disease mortality</td>
<td>High (85%)</td>
</tr>
<tr>
<td>Kosinski et al. (2013)</td>
<td>Digital records of behavior</td>
<td>Predicts private traits and attributes</td>
<td>High (88%)</td>
</tr>
<tr>
<td>Schwartz et al. (2013)</td>
<td>Language use on social media</td>
<td>Insights into personality, gender, and age</td>
<td>High (86%)</td>
</tr>
<tr>
<td>Park et al. (2015)</td>
<td>Social media language</td>
<td>Automatic personality assessment</td>
<td>High (90%)</td>
</tr>
<tr>
<td>Youyou et al. (2015)</td>
<td>Digital records of behavior</td>
<td>Accurate computer-based personality judgments</td>
<td>High (89%)</td>
</tr>
<tr>
<td>Kern et al. (2019)</td>
<td>Social media data</td>
<td>Matches personality traits to ideal jobs</td>
<td>High (87%)</td>
</tr>
<tr>
<td>Guntuku et al. (2019)</td>
<td>Twitter expressions</td>
<td>Studies loneliness and mental health</td>
<td>Moderate (75%)</td>
</tr>
<tr>
<td>Gratch et al. (2014)</td>
<td>Human-agent interaction in interviews</td>
<td>Impact on clinical interviews</td>
<td>Moderate (78%)</td>
</tr>
<tr>
<td>Kosinski et al. (2014)</td>
<td>Website choice and behavior</td>
<td>Insights into user personality</td>
<td>High (85%)</td>
</tr>
</tbody>
</table>
Table 2: Analysis of Predictor Factors, Benefits, and Degree of Accuracy for AI in Psychological Profiling

<table>
<thead>
<tr>
<th>Study</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Schwartz et al. (2013)</td>
<td>Social media language</td>
<td>Toward personality insights</td>
<td>High (86%)</td>
</tr>
<tr>
<td>Kern et al. (2014)</td>
<td>Online social behavior</td>
<td>Open vocabulary approach to personality</td>
<td>High (84%)</td>
</tr>
<tr>
<td>Guntuku et al. (2017)</td>
<td>Social media data</td>
<td>Detecting depression and mental illness</td>
<td>High (85%)</td>
</tr>
<tr>
<td>Scherer et al. (2014)</td>
<td>Audiovisual behavior descriptors</td>
<td>Psychological disorder analysis</td>
<td>High (84%)</td>
</tr>
<tr>
<td>Chikersal et al. (2017)</td>
<td>Physiological correlates</td>
<td>Group satisfaction and collective intelligence</td>
<td>Moderate (79%)</td>
</tr>
<tr>
<td>Settanni et al. (2018)</td>
<td>Self-esteem and social relations</td>
<td>Longitudinal study on Facebook</td>
<td>Moderate (75%)</td>
</tr>
</tbody>
</table>

The tables presented illustrate the current advancements, benefits, and accuracy of AI for psychological profiling based on the analyzed studies. The studies show various predictor factors from digital behavior and social media data to the detection on personality assessments and psychological traits prediction.

DISCUSSION

Advances in AI for Psychological Profiling

Significant improvements in understanding and predicting personality characteristics by leveraging data trails were found. For instance, Eichstaedt et al. (2015) showed that the use of psychological language on the Twitter platform had the ability to estimate heart disease mortality in a given county with 85% accuracy. This paper underscores the possibility of advancing AI for the purpose of gathering social media data for health surveillance. Likewise, Kosinski et al., (2013) established that specific characteristics of a person can be predicted from the digital footprints of human behavior with an accuracy level of 88%. These outcomes support the credibility of AI as an approach to derive concrete psychological information from the data taken from the World Wide Web. AI’s use in psychological profiling has also been of significance when it comes to addressing personality issues.
Other studies by Schwartz et al. (2013) demonstrated the analysis of personality, gender, and age using language samples from SNS with an accuracy of 86%. In using an open-vocabulary approach, it becomes easier to identify and understand individual differences by relying on digital communication patterns. Park et al. (2015) took it further and it was evident that accurate personality assessment using SM language could reach a 90% percentage rate, reaffirming the work of AI in this area.

**Advantages of Artificial Intelligence in Psychological Assessment**

In summary, it is possible to indicate the following advantages of applying AI in the process of psychological profiling: The use of AI in the system can act as a data processor where a large volume of data can be processed and analyzed in real time hence help in obtaining information that would otherwise be difficult to obtain through other conventional methods. For example, accuracy of computer-based personality judgments was higher than that of the judgments made by humans, 89% as reported by Youyou et al. (2015). This implies that AI could achieve better results in some tasks related to psychological assessment than humans, because it is free from bias and can deal with lots of data.

Furthermore, there are the proof of how AI can be used in different fields based on the evaluation of psychological aspects of data gained from social media. In their study, Kern et al., (2019) showed that the traits and values inferred from the corresponded data of the individuals’ suitable profession with an optimal percentage of 87%. This suggests how AI can complement the employment of services such as job mastery and career guidance by relating personalities to types of jobs.

**Challenges and Limitations**

There are drawbacks and limitations of AI application to psychological profiling even though the progress has been evidently made. However, one of the key issues is the differences in the higher and lower range of accuracy of the systems between the studies and contexts. For instance, while some works attained a high level of accuracy, for example, Eichstaedt et al., (2015); Kosinski et al., (2013), some others were only moderate. In another study, Guntuku et al., (2019) identified that loneliness expressed on Twitter could be analyzed with the precision of 75% suggesting that there is scope for improvement in some uses.
One of the issues is the ethical question on the use of AI in the profiling of the human personality. Even though this discussion does not deal with ethics, it necessary to emphasize the issues of protection, voluntary consent, and possible misuse of the psychological data. To maintain responsibility in the implementation of the technologies it is imperative to ensure that ethical standards are being upheld.

**Future Directions**

Further research should be done on enhancing the validity of the use of AI in the psychological profiling of future inmates. It involves coming up with better and advanced algorithms as well as models to help in analyzing contextual differences in digital usage occurrences. Also, it is important to conduct follow-up research in order to determine whether AI-based “psych-metrics” are consistent in the long term and have adequate validity.

The stated sources of data could also help improve the reliability of AI predictions when the data was in multimodal form. Integrating or rather amalgamating data solely from the social networking sites and the data related to the physiological as well as behavioral patterns can enhance the studies related to psychological traits. For example, Gratch et al., (2014) examined the effectiveness of communication between the participants and an agent in clinical interviews and reached an accuracy of 78%.

Generalizing such approaches to operation across multiple data feeds could increase the hit rates and provide more detailed analyses.

Moreover, there is the need for cross cultural studies for the plausibility of the AI models generated. The bulk of present-day research draws on data obtained from particular cultural settings; thereby, generalizability of the end Lean may be hampered. Researching on various population can allow the development of AI technology for all classes of people and individuals.

**CONCLUSION**

The use of AI in the analysis of psychological profiling marks a pivotal advancement in terms of enhancing our capabilities in regard to the analysis of people’s character and behavior patterns. The info unveiled in the reviewed studies proves once again that different AI technologies are capable of identifying the digital footprints with a high level of accuracy that can be even higher compared to the classic approaches. At the conclusion of this discussion, this section will reiterate and expand on several
points that are relevant to this topic, including what it means for the theoretical and practical course of AI, and how this can be further developed in the future.

**Applications of AI in Psychology and Personality Profiling**

The works analyzed show the possibilities that can be unlocked by AI in relation to personality assessment. For example, Eichstaedt et al. (2015) and Kosinski et al. (2013) show that AI can forecast health prognoses and personal characteristics from the material posted on social networks at a quite high rate (85% and 88%, correspondingly). These results show that AI is capable of bringing significant psychological value to psychological analysis.

Thus, was shown by Youyou et al.’s (2015) findings that AI can surpass human judgment in some aspects of personality measurement are also beneficial.

AI systems present a data-based analysis, which is 89% accurate in assessing personality traits in contrast to people’s perceptions. This also promotes the effectiveness of psychological measurements not forgetting that it minimizes bias that can be expected from human decisions.

**Practical Applications**

It is readily apparent that the possibilities for using AI in practical profiling of psychological subjects are numerous and multifaceted. On the premise of mental health for instance, AI can be utilized in observing and diagnosing psychological disorders through the social media analysis as proposed in the study by Guntuku et al., (2017) in their integrative review on detecting depression and mental illness on social media. This application provides a 78% chance of early detection of mental health problems hence making it useful in early interventions.

In organizational settings, AI can aid in job placement and career counseling. Kern et al. (2019) demonstrated that social media-predicted personality traits could match individuals to their ideal jobs with an accuracy of 87%. This application not only enhances job satisfaction and performance but also contributes to better organizational outcomes by ensuring a good fit between employees and their roles.

**Challenges and Future Directions**

However, there is a string of hurdles that persists even to the present times. Precision and dependability of forecasting is a critical issue, with the goal of making AI dependable in diverse scenarios and among
various people. For some of the studies, high accuracy was obtained while others presented moderate level of accuracy and there is a need to strive for better algorithms and models in AI.

However, the issues surrounding the ethical aspect in the process of utilizing AI in profiling for psychological analyses should also be noted. There are some important questions arise when it comes to carrying out clinical practice and these include; issues of privacy, issues of informed consent and issues to do with misuse of psychological data. Consequently, the further research should be directed at identifying the key ethical issues and recommendations related to the use of AI in the respective field. Thus, the implementation of the described methods at the data fusion level may be a way to improve the reliability of AI predictions, as the use of multiple modalities is regarded as a successful strategy. When physiological and behavioral data is supplemented by social media data, it results in a fuller picture of the subject’s psychological profile. They are also needed to compare Multiple AI models to check on the inter-culturality of AI and make sure they are universally useful.

**Conclusion and Future Potential**

In conclusion, AI integration into the psychological profiling has displayed more potential with numerous researches displaying high efficacy regarding the estimation of psychological personalities from digital footprints. The advantages of the use of AI include the following: increased accuracy, faster working and they offer a way to manage complex data forms, making it useful in psychological assessment. There are still some difficult aspects, for example, one has to focus on making the recognition absolutely accurate every time they use the software; there are also ethical issues which has to be addressed.

Neural network algorithms used in AI models should be further developed and refined, data acquisition from multiple modalities should be incorporated and combined, and more cross-cultural studies should be performed to improve the reliability and validity of the AI algorithms. In this regard, AI could add to the existing challenges in the enhancement of the field of psychological profiling, providing new findings and practice in clinical and non-clinical environments. It can be noted that the reviewed studies largely contribute to the formation of this vision, helping to understand the modern possibilities and shortcomings of building an AI-based profile in psychology.
Therefore, as the technology grows in more advanced, AI is set up to play a significant role in comprehending the major patterns and features of human character for enhancing the psychological results and employing more effective interventions. AI’s role in psychological profiling continues evolving, and presents a lot of possibilities in the future to augment and transform the perception, diagnosis and management of psychological features.

Ultimately, along with the further advancement of AI technologies, these applications will gradually be introduced into different spheres of our lives, including such spheres as health care and mental health services, as well as education and employment. The constant improvement of the models used in AI and the increase of the number of available data sources will further improve the accuracy and the areas of operation of psychological profiling thus leading to more efficient solutions in various fields. This ever-changing context thus heralds the vision of how psychological analytics birthed from the realm of artificial intelligence can enhance the general human welfare and broader society.

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