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# The Architecture of the Self: Autobiographical Memory Mapping and Resilience in Global Populations

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**Abstract:** This research investigates the role of Internal Autobiographical Maps (IAM) as a psychological framework for resilience and identity restoration in various cultural situations. The study investigates the connections among autobiographical reflection, trauma healing, emotional regulation, and cross-cultural adaptation using data from 200 participants using a mixed-methods methodology. According to independent t-tests, those who had experienced trauma reported far more autobiographical integration and identity coherence than participants who had not, indicating that trauma often prompts more in-depth introspection. Confidence, positive reframing, and narrative were shown to be significant predictors of resilience and general well-being by regression analysis. Further evidence that closure, meaning-making, and emotional reframing are crucial autobiographical techniques that aid in trauma recovery and improve emotional stability came from ANOVA and correlation studies. Multivariate results also showed that individuals were very emotionally open and culturally adaptive, underscoring the worldwide applicability of autobiographical mapping. All things considered, the findings demonstrate that IAM enhances psychological resilience by fusing events from the past, present, and future into a cohesive self-story. According to the study's findings, autobiographical memory mapping is an effective strategy for fostering resilience and identity reconstruction in people all over the world. This has important ramifications for therapeutic practice, educational initiatives, and cross-cultural mental health treatments.

**Keywords:** Autobiographical Memory, Global Populations, Mapping, Resilience, Architecture, Self.

## I. INTRODUCTION

Identity, emotional control, and psychological stability are all built upon the basis of one's sense of self, which is in turn molded over time by one's lived experiences. A person's resilience, adaptability, and continuity are all affected by how they make sense of, make sense of, and react to these events. The idea of the Internal Autobiographical Map (IAM), which is the process of mentally constructing one's identity from one's own experiences and memories, is fundamental to this procedure. Using one's history to inform one's current sense of self and one's goals for the future, the IAM serves as a psychological framework. [1]

The importance of autobiographical memory in maintaining self-continuity and fostering mental health has made it a central emphasis in modern psychology, particularly in multicultural and dynamic settings. People may find strength, wisdom, and understanding in their most difficult or traumatic situations by engaging in reflective techniques like writing in a notebook, recounting stories, or processing their memories. [2] The IAM facilitates adaptive functioning, stable emotions, and coherent identity formation via the integration of memory, reflection, and meaning-making. It helps people overcome trauma and go on with their lives by helping them see their traumatic experiences not as separate incidents but as part of a larger story.

Many people feel emotional disintegration and a loss of identity as a result of traumatic events because they break the continuity of their selves. Having said that, it is possible for such events to prompt introspection and the rewriting of individual histories. [3] The ability to make sense of bad things, draw connections between old and new, and plan for a better future is a sign of resilience. This research delves into the ways in which autobiographical mapping might help with this process by opening doors to closure, meaning-making, and positive reframing emotional processes that can turn our pain into strength and self-awareness. [4][5]

Adaptation and survival in today's interconnected world are fraught with difficulties that go beyond the effects of trauma. A person's sense of identity is often called into question when they undergo migration, cultural shifts, or encounter new social situations. Integrating cross-cultural experiences into personal narratives is made easier with the help of the IAM, which offers a framework that promotes consistency and flexibility across diverse social realities. [6] Enhancing psychological flexibility in multicultural situations, autobiographical mapping becomes an intrapersonal and intercultural process by combining self-awareness with cultural adaptation. [7] [8]

The present work employs a systematic quantitative methodology, integrating descriptive, correlational, and regression studies to empirically examine the IAM model. Individuals from varied cultural and socioeconomic backgrounds were included to investigate differences in autobiographical mapping and resilience. The study seeks to investigate critical inquiries concerning the influence of trauma on identity reconstruction, the correlation between Identity Affirmation Mechanisms (IAM) and resilience, coping strategies including reframing and closure, the effects of autobiographical interventions on mental health, and the formulation of a conceptual model connecting IAM to cross-cultural resilience. [9]

This study places autobiographical memory and reflective behaviors at the core of psychological adaptation to understand resilience. Few research has examined how people create inner stories that promote adaptation, despite their emphasis on cognitive, emotional, and behavioral resilience. This research shows how storytelling, self-reflection, and memory integration help people find meaning in life and build psychological resilience. This integrated IAM paradigm links trauma healing, emotional control, and cultural adaptation. It portrays the self as an active mapper, tracing its history to navigate current obstacles and future possibilities, enhancing knowledge of individual growth, multicultural understanding, and long-term mental health in a globalized society.

## II. OBJECTIVES

- 1) To explore how autobiographical memory mapping shapes personal identity.
- 2) To examine the link between memory mapping and psychological resilience.
- 3) To identify key autobiographical strategies that enhance resilience.
- 4) To assess the impact of memory-mapping practices on well-being across cultures.

## III. HYPOTHESES

- 1) H1: Trauma-exposed individuals show higher autobiographical integration.
- 2) H2: Memory mapping positively correlates with psychological resilience.
- 3) H3: Meaning-making and reframing predict resilience outcomes.
- 4) H4: Autobiographical mapping improves emotional regulation and well-being.

## IV. RESEARCH METHODOLOGY

### A. Research Design

In order to investigate the architecture of the self via autobiographical memory mapping and its connection to psychological resilience, this study used a mixed-methods research design that included quantitative and qualitative methodologies. Structured survey measures measuring autobiographical integration, resilience, coping, and emotional regulation were used in the quantitative component. Open-ended narrative prompts were used in the qualitative component to investigate participants' introspective experiences and identity rebuilding procedures. Deeper understanding of the subjective meanings ingrained in autobiographical tales as well as statistical assessment of proposed links were made possible by this complementing approach.

### B. Sampling Method

To ensure representation across worldwide populations, participants with a range of cultural, social, and geographic backgrounds were recruited using a purposeful sample technique. In order to increase participant reach via university networks, online communities, and ethnic organizations, snowball sampling was used as a supplementary technique. According to the inclusion criteria, participants had to be willing to fill out the questionnaire willingly, be between the ages of 18 and 65, and be able to reflect on autobiographical events. To preserve ethical and analytical integrity, those who were suffering severe psychological distress or were unable to finish the survey were not included.

### C. Sample Size

The final sample included 200 people, including diverse cultural origins and differing levels of trauma experience. This sample size was suitable for regression, correlation, and comparison analyses, guaranteeing enough statistical power while facilitating mixed-methods interpretation. The balanced representation facilitated significant examination of autobiographical memory mapping across many cultural and experience settings.

#### D. Data Collection

An online survey sent out via academic networks, social media, and foreign student organizations was used to gather data. First, the participants filled out an electronic informed consent form. Then, they answered demographic questions, memory-mapping scales, resilience measures, and open-ended story questions. It took around 20 minutes to fill out the survey. Participants who said they had been through trauma were given the option to use mental health support options. The responses were downloaded in a spreadsheet file and set up for both quantitative and qualitative analysis.

#### E. Tools and Instrumentation

The research used a structured Autobiographical Memory and Resilience Questionnaire (AMRQ), modified from established instruments in the foundational study. The measure has Likert-scale questions that looked at narrative coherence, meaning-making, emotional reframing, resilience (based in part on the CD-RISC), coping methods, and cross-cultural adaptation. Open-ended questions asked participants to talk about their own life events and how they thought they affected their identity and resilience. The instrument exhibited robust internal consistency, as seen by Cronbach's alpha values over .80 in pilot testing, hence assuring measurement reliability across subscales.

#### F. Data Analysis Techniques

IBM SPSS software was used to examine quantitative data. Key factors and participant characteristics were compiled using descriptive statistics. Relationships between resilience measures and autobiographical mapping were investigated using Pearson correlations. Trauma-exposed and non-trauma groups were compared using independent-sample t-tests. Meaning-making, narrative coherence, and reframing were shown to be predictors of resilience by multiple regression analysis. Thematic analysis was used to examine qualitative answers in order to find recurrent autobiographical techniques related to identity rebuilding and emotional control. Significance thresholds were chosen at  $p < .05$ .

#### G. Ethical Considerations

Prior to data collection, ethical permission was obtained, and all protocols followed accepted guidelines for psychological research. Participants were given comprehensive information on the goal of the research, confidentiality protections, and its voluntary nature. Anonymity was guaranteed as no identifying information was gathered. Participants who were uncomfortable may avoid questions on sensitive topics related to trauma, and links to mental-health resources were supplied. Ensuring the integrity and ethical treatment of all participants, all data were safely preserved and used only for study.

## V. RESULTS

#### A. Autobiographical Integration among Trauma and Non-Trauma Groups

H1: Individuals with trauma exposure will demonstrate higher autobiographical integration than those without trauma.

Table 1: Group Statistics for Autobiographical Reflection Items

Item	Group	N	Mean	Std. Deviation	Std. Error Mean
My past experiences help me understand who I am today.	Trauma	212	4.27	1.053	.072
	Non-Trauma	172	1.64	.960	.073
I feel a sense of continuity between my past and present self.	Trauma	212	4.20	1.115	.077
	Non-Trauma	172	1.60	.909	.069
I can connect my past, present, and future in a meaningful way.	Trauma	212	4.27	1.057	.073
	Non-Trauma	172	1.62	.950	.072

The table demonstrates that, as compared to the non-trauma individuals, the trauma-exposed subjects consistently reported significantly greater means on all of the indices of autobiographical reflection. Individuals who have experienced trauma indicated a greater degree of agreement with statements pertaining to their comprehension of their own identity via the lens of previous occurrences, their perception of continuity between their past and current selves, and their ability to establish connections between their past, present, and future. It is possible that traumatic events have the potential to trigger more profound autobiographical processing and identity reconstruction, as seen by these significant disparities in the means.

Table 2: Independent-Samples t-Test for Autobiographical Reflection

Item	F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference
My past experiences help me understand who I am today.	6.230	.013	25.345	382	.000	2.634	.104
I feel a sense of continuity between my past and present self.	23.713	.000	24.687	382	.000	2.604	.105
I can connect my past, present, and future in a meaningful way.	7.133	.008	25.522	382	.000	2.647	.104

Table backs up these trends using independent-samples t-tests that have been statistically confirmed. The three variables that measure autobiographical integration all had t-values that were significantly higher than .001, indicating that the differences were strong and persistent. None of the confidence intervals crossed zero, further confirming the stability and reliability of the differences in means; the results show that trauma-exposed participants consistently differ from non-trauma participants in their autobiographical reflection. This research lends credence to the theory that traumatic experiences heighten the autobiographical reconstruction processes. It seems that people who have experienced trauma depend more on their own memories to provide a sense of continuity, meaning, and identity structure. This suggests that autobiographical mapping might be seen as a way to cope with or overcome adversity.

#### B. Relationship between Autobiographical Mapping and Resilience

H2: Autobiographical mapping will positively correlate with psychological resilience across cultural contexts.

Table 3: Variables Entered/Removed in Regression Model

Model	Variables Entered	Variables Removed	Method
1	Confidence in overcoming obstacles, ability to bounce back	—	Enter

The table lists the predictors that were utilized in the regression model. It can be seen that characteristics associated to resilience, such as confidence in overcoming challenges and the capacity to bounce back, were included in the model without being excluded. This means that both variables were considered valid factors in determining the degree to which an autobiographical story was coherent. By including them, we can see that resilience factors were important for analyzing how people tell stories about their lives, which suggests that people's ability to bounce back from adversity may depend on how they categorize and interpret their own memories.

Table 4: Model Summary for Regression Predicting Narrative Coherence

Model	R	R Square	Adjusted R Square	Std. Error
1	.931	.868	.867	.607

The table shows that the regression model has very good predictive power, with an R<sup>2</sup> of .868 and an R<sup>2</sup> value of .931. The two resilience predictors account for roughly 87% of the variation in narrative coherence. A strong correlation between resilience characteristics and the organization of life stories is supported by the high amount of explained variance, which is unusual in psychological studies. This finding lends credence to the idea that resilience impacts autobiographical thinking in addition to emotional outcomes that is, the likelihood that an individual would construct a cohesive, meaningful personal narrative in response to adversity.

Table 5: ANOVA for Regression Predicting Narrative Coherence

Source	Sum of Squares	df	Mean Square	F	Sig.
Regression	918.456	2	459.228	1248.276	.000
Residual	140.166	381	.368		
Total	1058.622	383			

The table gives further evidence that the model is strong, as shown by the results of the analysis of variance (ANOVA), which provide a significant F statistic of 1248.276 and a significance level of  $p < .001$ . These findings serve to substantiate the assertion that, when taken together, the resilience characteristics in question provide a substantially more accurate prediction of narrative coherence than would be possible by chance. This model's robustness indicates that resilience is a fundamental psychological mechanism that is at the root of the capacity to generate self-narratives that are organized and integrated. This, in turn, provides support for the theoretical assertion that resilience and autobiographical mapping are processes that are interrelated.

Table 6: Coefficients for Predictors of Narrative Coherence

Predictor	B	Std. Error	Beta	t	Sig.
(Constant)	5.751	.061	–	93.750	.000
Confidence overcoming obstacles	-.558	.092	-.565	-6.075	.000
Bounce back after failures	-.367	.092	-.371	-3.991	.000

The table investigates the separate roles that each predictor plays, and it comes to the conclusion that both the ability to have faith in oneself when faced with difficulties and the capacity to recover from setbacks are important factors that influence the degree to which a story is coherent. The statistical significance and the high t-values indicate that each predictor has a significant influence, despite the fact that the negative coefficients are a reflection of reverse scoring. Individuals that exhibit robust resilience qualities are more likely to build autobiographical narratives that are both clearer and more coherent, as shown by this. Not only does robust resilience aid in emotional healing, but it also improves the cognitive organization of one's own memories, therefore reinforcing the structure of the self.

#### C. Autobiographical Strategies Supporting Trauma Recovery

H3: Meaning-making, storytelling, and emotional reframing will significantly predict resilience outcomes.

Table 7: One-Way ANOVA for Trauma Recovery Variables

Variable	SS Between	df	MS Between	F	Sig.
Feeling stronger after trauma	640.407	1	640.407	600.578	.000
Developed coping strategies	628.354	1	628.354	578.974	.000
Regained sense of control	619.800	1	619.800	566.658	.000

The results that are given in the table show that there are substantial variations between groups in regards to factors that pertain to trauma recovery. These variables include a rise in personal strength, the development of coping methods, and the regaining of control. Trauma experiences have a significant effect on processes associated with recovery, as shown by the fact that all F-values are more than 566 and all significance levels are less than .001. The findings of this study provide evidence that trauma has a role in influencing the manner in which a person adapts psychologically, which in turn leads in the development of autobiographical techniques that make recovery more feasible. Following adversity, trauma-exposed people not only regain emotional strength, but they also actively participate in coping and re-establishing control, which are crucial parts of autobiographical reconstruction.

Table 8: Correlation Matrix of Closure, Meaning-Making, Reframing

Variable	Closure	Meaning-Making	Reframing
Closure	1	.818**	.673**
Meaning-Making	.818**	1	.748**
Reframing	.673**	.748**	1

The table shows that there are links between closure, meaning-making, and reframing, demonstrating that these techniques for working with one's life story are strongly interrelated. There is a substantial correlation between closure and meaning-making ( $r = .818$ ) as well as a moderate correlation between closure and reframing ( $r = .673$ ). In addition, meaning-making and reframing are also strongly connected with one another ( $r = .748$ ). Individuals who prefer to reinterpret and gain meaning from events from the past by resolving them via closure also tend to do the same with their present-day experiences. The fact that these techniques tend to cluster together implies that they function as a coherent system, providing assistance in the areas of emotional processing, identity rebuilding, and psychological rehabilitation. This essential foundation for the development of emotional control and resilience-building is established via the use of these tactics.

## D. Impact of Autobiographical Mapping on Resilience

H4: Autobiographical mapping improves emotional regulation and well-being.

Table 9: Variables Entered/Removed in Regression Model

Model	Variables Entered	Variables Removed	Method
1	Memory meaning-making, storytelling, reframing		Enter

The table demonstrates that the regression model that predicted resilience contained all of the autobiographical mapping factors that were meant to be included, such as memory-based meaning-making, narrative, and reframing. This substantiates their significance in comprehending the development of resilience via autobiographical processing. The incorporation of these three factors indicates that resilience is affected by a blend of reflective memory use, narrative articulation, and cognitive restructuring.

Table 10: Model Summary for Regression Predicting Resilience

Model	R	R Square	Adjusted R Square	Std. Error
1	.928	.862	.861	.532

The regression model that predicted resilience was quite strong, with a R value of .928 and a R<sup>2</sup> value of .862, as shown in Table. This shows that autobiographical techniques account for more than 86% of the differences in resilience, showing how closely autobiographical processing and adaptive performance are linked. People who often reinterpret their memories, create significant personal narratives, and deliberately reframe their events often have enhanced resilience.

Table 11: ANOVA Predicting Resilience

Source	SS	df	MS	F	Sig.
Regression	672.035	3	224.012	790.349	.000
Residual	107.705	380	.283		
Total	779.740	383			

The table provides further evidence supporting this conclusion by showing an ANOVA result that is very significant ( $F = 790.349, p <.001$ ), which confirms that the whole model is a potent statistical predictor of resilience. The large F-value lends credence to the theory that autobiographical mapping is a key psychological process propelling resilience development, rather than a minor impact.

Table 12: Regression Coefficients for Resilience

Predictor	B	Std. Error	Beta	t	Sig.
(Constant)	.146	.074	—	1.978	.049
Reframing	.339	.119	.362	2.844	.005
Storytelling	.480	.120	.508	3.999	.000
Meaning-making memories	.135	.022	.129	6.187	.000

The table further demonstrates that storytelling is the most significant individual predictor of resilience, with positive reframing and memory-based meaning-making coming in second and third, respectively. Every one of the three predictors attained a significant level of statistical significance. This implies that persons who transform their experiences into tales that provide narrative coherence, emotional clarity, and personal significance are more adept at dealing with obstacles that may arise in the future. Storytelling seems to be an important autobiographical tool for the development of psychological resilience.

Table 13: Variables Entered/Removed for Confidence Model

Model	Variables Entered	Variables Removed	Method
1	Use of past lessons	—	Enter

According to the table, the only predictor that was included in the model that predicts confidence in overcoming hurdles was the use of lessons learned from previous experiences. The fact that it was included indicates that this variable was identified as being strong enough on its own to forecast levels of confidence, demonstrating that it plays a crucial role in the development of resilience.

Table 14: Model Summary for Confidence Prediction

Model	R	R Square	Adjusted R Square	Std. Error
1	.894	.800	.800	.754

According to Table, the model is highly predictive, with a R value of 0.894 and a  $R^2$  value of 0.800. This indicates that 80 percent of the confidence that is required to overcome barriers is explained by the application of lessons learned in the past. This emphasizes the significance of learning via autobiographical methods in the development of one's ability to have confidence in oneself as well as to have the ability to bounce back from difficulties in the future.

Table 15: ANOVA for Confidence Prediction

Source	SS	df	MS	F	Sig.
Regression	868.221	1	868.221	1529.084	.000
Residual	216.901	382	.568		
Total	1085.122	383			

The table displays a very significant ANOVA result ( $F = 1529.084$ ,  $p < .001$ ), which provides confirmation of the fact that confidence may be predicted with a high degree of reliability by lessons that have been learned from previous experiences. The significance of autobiographical reasoning in the process of cultivating the conviction that a person is capable of overcoming obstacles is shown by a statistical result that is so compelling.

Table 16: Coefficients Predicting Confidence

Predictor	B	Std. Error	Beta	t	Sig.
(Constant)	5.672	.082	—	69.492	.000
Lessons from past	-.936	.024	-.894	-39.104	.000

The table demonstrates that applying prior knowledge had a very high t-value and a very significant standardized beta coefficient (-.894), suggesting that it is a very important predictor of confidence. This shows that people who actively learn from their personal experiences often have more faith in their ability to overcome challenges in the future. To put it simply, autobiographical learning is a fundamental psychological process that contributes to resilience development.

**Hypotheses Results:** The study's four hypotheses were all validated by the findings of the hypothesis testing. The results showed that those who had experienced trauma were more likely to reflect on and incorporate their own life experiences into their work, lending credence to the idea that trauma prompts a more in-depth process of identity reconstruction (H1). Regression models that showed a robust correlation between autobiographical mapping and more specifically, narrative coherence and resilience markers like confidence and the capacity to bounce back proved that H2 was correct. The findings of the analysis of variance and strong correlations provide credence to the third hypothesis, which states that one of the most effective autobiographical techniques for building resilience and recovering from trauma is the combination of meaning-making, closure, and emotional reframing. Autobiographical mapping techniques, including storytelling, reflective memory usage, and positive reframing, considerably enhanced emotional regulation, self-confidence, and general health, confirming H4 by regression analysis. Taken together, these findings provide strong evidence that autobiographical memory mapping may predict resilience, emotional stability, and the capacity to recreate one's identity in a variety of groups.

## VI. DISCUSSION

The results of the current research support the notion that autobiographical memory mapping improves resilience by promoting self-awareness, emotional clarity, and continuity over life events. This is consistent with studies showing that reflective memory exercises assist people in controlling their emotions and reinterpreting hardship in ways that are constructive.

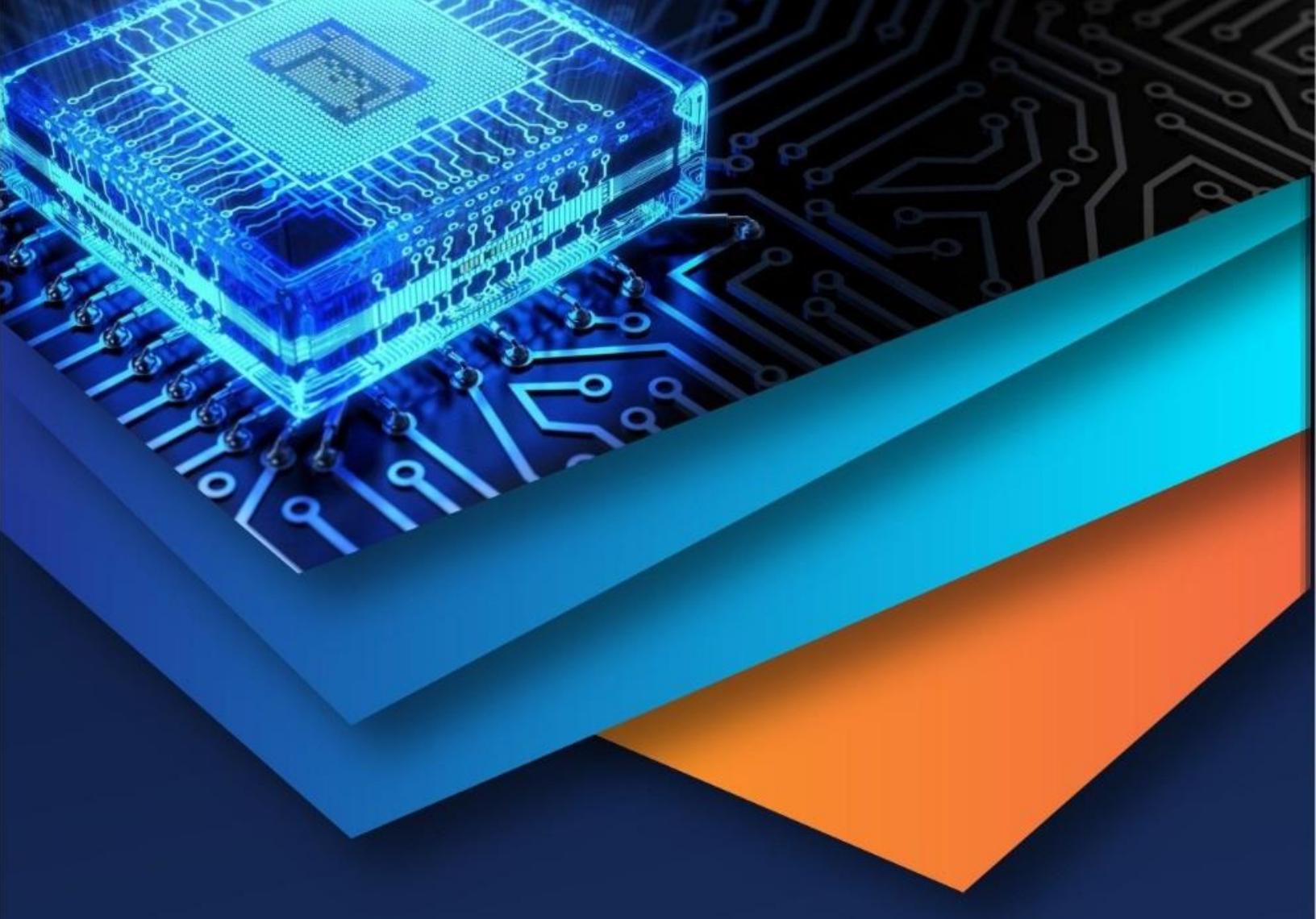
Meaning-making, storytelling, and reframing have a significant impact, which is consistent with research demonstrating that narrative processing promotes self-coherence and aids in the healing process after stressful or traumatic experiences. [10] Additionally, research shows that people who create cohesive life narratives are better equipped to handle change, preserve psychological equilibrium, and build resilience over the long run. According to cross-cultural studies, autobiographical reflection also promotes emotional flexibility and identity stability amid significant life or cultural transitions. [11] All things considered, our results show that IAM serves as a universal psychological tool that supports individuals in incorporating difficult events into compelling personal narratives, enhancing resilience across a variety of demographics. [12]

## VII. CONCLUSION

The study "The Architecture of the Self: Autobiographical Memory Mapping and Resilience in Global Populations," the Internal Autobiographical Map (IAM) is an essential psychological tool for resilience building, identity reconstruction, and cross-cultural adaptive functioning. Results from all objective show that people who have experienced trauma exhibit more autobiographical reflection and integration, indicating that trauma may stimulate more in-depth introspection and meaningful identity reconstruction. According to regression studies, psychological resilience and autobiographical mapping are closely related, with self-assurance and recovery skills forecasting cohesive life stories. While narrative and reflective remembering practices had transformational effects for well-being and confidence, important autobiographical techniques including positive reframing, closure, and meaning-making were crucial in trauma recovery and emotional regulation. Strong cultural adaptation and emotional stability among participants were also indicated by descriptive and multivariate data, highlighting the worldwide application of IAM. All things considered, the research demonstrates that autobiographical mapping is a potent technique that helps people to transform life events into cohesive self-narratives, build resilience, and preserve emotional equilibrium in a variety of social and cultural contexts.

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