Multi-talent Discovery, Development and Drive in Digital Dynamics: The Case of Smart Kids Connect

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Abstract—This paper explores a holistic approach to identifying and nurturing multiple talents in children (ages 7-17) within today's digital environment. We define eight talent categories adapted from Gardner's multiple intelligences (e.g. Thinking & Problem-Solving, Language & Expression, etc.) and introduce a novel framework for Discovery, Development, and Drive for kids in Digital Dynamics alongside a mapping method of Classes, Challenges, Coaching, and Competitions to operationalize talent development in a program called Smart Kids Connect. We analyze an initial pilot study (N=32, immigrants in Rwanda and Angola) with a custom developed questionnaire and Exploration Readiness Index to gauge curiosity and growth mindset. Key findings on talent profiles, clustering, and drive inform the design of a comprehensive digital talent discovery and development platform. Building on a Digital Project-Based Learning model and prior work on African youth and diaspora, we discuss implications for scaling to 500+ kids and early youth globally, fostering a connected multi-talent ecosystem for future research and innovation.

Keywords—Talent, Discovery, Development, Drive, Digital Dynamics, Smart Kids Connect, AI for Talent, E-Business, E-Education

I. Introduction

In the contemporary digital landscape, there is an increasing acknowledgment among educators and researchers that children's potential is multifaceted and not solely defined by traditional academic metrics. As society pivots toward a creative, digitally-oriented future, it becomes essential to adopt a more holistic framework that recognizes diverse talents - ranging from analytical problem-solving and artistic expression to social leadership. This shift emphasizes the dangers of a narrowly focused traditional system that often overlooks other significant areas of children's development [1], [2].

Recognizing the substantial theoretical frameworks behind this learning paradigm, such as Howard Gardner's theory of Multiple Intelligences, this paper seeks to introduce a comprehensive model for multi-talent discovery and development in children aged 7 to 17. The proposed "5D Framework" (Discovery, Development, Drive, Digital, Dynamics) serves as a foundational structure for identifying

and nurturing diverse talent areas [3]. Moreover, it incorporates modern digital tools to facilitate engagement and learning, thereby augmenting traditional methods and broadening talent development outcomes.

To operationalize this framework, we also present the "4C Method" (Classes, Challenges, Coaching, Competitions), which offers practical strategies for implementing talent development in educational contexts. The rationale behind these methodologies is supported by an initial exploratory pilot study of 32 children from Rwanda and Angola in a special program called Smart Kids Connect. This study utilized self-assessments of talent and a newly developed Exploration Readiness Index to gauge curiosity and a growth mindset, providing preliminary insights into the multi-talent profiles of the participants [4].

Moreover, this research builds upon existing literature and case studies, notably the Start-up Kids Campus, which exemplifies the successful integration of Digital Project-Based Learning to stimulate talent among young individuals [5]. Our paper articulates a vision for a comprehensive digital platform, designed to extend the reach of multi-talent discovery and development on a global scale, thereby responding to a pressing need for adaptable educational ecosystems equipped to prepare youth for future challenges. Key contributions of this work include: (1) a contextualized definition of eight talent categories pertinent to the digital era, (2) innovative frameworks (5D and 4C) that facilitate talent development, (3) empirical analysis of pilot data regarding youth talent profiles, and (4) a strategic roadmap for a digital platform aimed at disseminating this knowledge widely [6].

In summary, the need for a holistic approach to talnet development is underscored by growing demands for innovation and adaptability in the workforce. By recognizing and cultivating a diverse array of talents, we can better equip the next generation to thrive in a rapidly evolving global landscape [3][7].

II. LITERATURE REVIEW

A. Multiple Talents and Intelligences in Education

Howard Gardner's Multiple Intelligences (MI) theory reconceptualizes intelligence as comprising eight distinct domains: linguistic, logical-mathematical, spatial, musical, bodily-kinesthetic, naturalistic, interpersonal, intrapersonal, contesting the traditional notion of a singular IQ measure [8]. While MI has faced criticism for potentially merging cognitive capabilities with skills or personality traits [9], its impact on educational practices remains profound due to its inherent intuitiveness. Educators apply the MI framework by diversifying teaching methods - utilizing storytelling for linguistic learners, simulations for spatial learners, and group projects for interpersonal learners thereby capitalizing on students' unique strengths [10]. In contemporary digital contexts, these intelligences evolve into "multi-talent" categories like Thinking & Problem-Solving for logical-mathematical or People & Leadership for interpersonal, promoting varied technological engagement to harness the full range of youth capabilities.

B. Digital Learning and Project-Based Models

Digital technologies provide innovative pathways for fostering multiple-talent development. Applications for interactive design enhance visual-spatial abilities, while creative writing platforms encourage linguistic skills, and programming games promote computational thinking [11]. Project-Based Learning (PBL) aligns effectively with this approach by involving students in genuine, interdisciplinary projects. Digital Project-Based Learning (D-PBL) expands constructivist, experiential learning into virtual realms, facilitating distance collaboration. The Start-up Kids Campus initiative exemplified D-PBL by integrating cohort-based online courses - merging live workshops with recorded modules - and utilizing tools such as video editing, 3D modelling, and interactive simulations. This structured model fostered greater collaboration and accountability than fully self-paced courses, enhancing teamwork and technical skills among participants [5].

C. Motivation, Mindset and the "Drive" to Develop Talent

Identifying potential marks the beginning; maintaining its development hinges on "Drive," or intrinsic motivation. According to Dweck's framework on growth mindset, perceiving intelligence as malleable facilitates resilience and perseverance [12]. By framing challenges as growth opportunities such as adopting the mindset of "I'm not a math person yet" - students are encouraged to persist. Our Exploration Readiness Index (ERI) quantifies students' enthusiasm for new experiences, determination in challenges, and beliefs regarding effort enhancing abilities. Elevated ERI scores correlate with robust "Drive" and a propensity for multi-talent exploration. Furthermore, mentorship and focused challenges, fundamental to our 4C method's "Coaching" aspect, provide necessary external support to strengthen internal motivation and expand aspirations [13].

D. Emerging Talent Platforms and Ecosystems

An emerging array of digital platforms is leveraging AI and data analytics to identify and cultivate diverse talents on a large scale. UNESCO's 2025 "Skills for the Future" initiative connects young people worldwide with educational courses,

mentors, and career opportunities to address the skills gap [14]. In India, private enterprises like Knack Kids utilize AI-enhanced games to evaluate children across dimensions inspired by educational theories, creating personalized development plans. Similarly, multi-agent AI systems can be harnessed to analyse creative works - such as art, writing, and audio while providing tailored growth activities as we envision to apply in Smart Kids Connect. These innovative systems demonstrate the need for engaging, child-friendly talent assessments that prioritize gamified and project-based evaluations over traditional standardized tests.

E. Talent Development in the African Context

Expanding multi-talent programs across varied contexts necessitates cultural adaptability and the utilization of global networks [15]. African youth, as the fastest-growing demographic, gain from diaspora engagement, which facilitates mentorship and resources [16], [17]. For instance, developing a talent hub connecting diaspora professionals with local tech needs fosters a transnational approach to talent development [18]. However, obstacles such as limited technology access and educational resource disparities highlight the need for a scalable digital platform compatible with low-bandwidth devices and equipped with offline features. The Exploration Readiness Index (ERI) identifies learners lacking confidence, ensuring inclusivity, while our framework, informed by MI theory and D-PBL, presents a culturally responsive model for nurturing children's diverse talents globally.

As discussed in this section, recent research indicates that children's diverse talents thrive when educational approaches incorporate multiple intelligences, digital project-based learning, and nurturing mindsets. Research across disciplines highlights the importance of varied assessments, the promotion of growth mindsets, AI-enhanced ecosystems, and culturally sensitive frameworks to empower youth on a global scale. In summary, the literature highlights these:

- Multiple Intelligence theory articulates eight intelligences to customize learning experiences.
- Digital project-based Learning (D-PBL) utilizes online, project-oriented cohorts to enhance student engagement.
- A growth mindset encourages resilience and facilitates scalable talent development with drive
- AI-driven platforms offer gamified, personalized assessments of talents and finally
- Collaborations with diaspora communities foster culturally relevant and expandable talent programs for African and African origin children together.

Smart Kids Connect effectively employs Classes, Coaching, Challenges, and Competitions both virtually and in-person in order to bridge diaspora and local communities, transforming the process of discovering and developing talents among African kid and early youth.

III. RESEARCH METHODOLOGY

This study adopted a multi-stage, theory-driven methodology aimed at refining constructs of talent,

developing a cohesive framework, and conducting preliminary empirical validation.

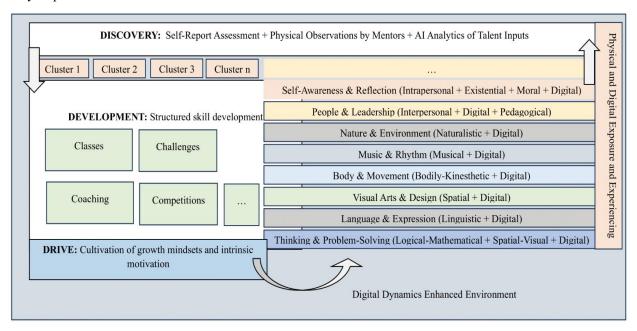


Fig. 1: Smart Kids Connect Platform - Conceptual Model of 5D+4C Framework

Building upon Howard Gardner's Multiple Intelligences (MI) theory and current insights from digital learning research, we initially consolidated and expanded the eight MI domains into "multi-talent" categories relevant to digital environments. Subsequently, we operationalized the five-dimensional (5D) and four-component (4C) frameworks and implemented a pilot exploratory study to evaluate their feasibility and facilitate the refinement of associated instruments.

The Smart Kids Connect platform for multi-talent discovery integrates a cyclical 5D+4C framework within a digitally enhanced environment, merging physical and virtual experiences to expose children to diverse talent domains. Central to this platform is the Digital Dynamics environment, which includes online modules, augmented physical activities, and community opportunities highlighting eight intelligences based on Howard Gardner's theory. Children enter the Discovery phase where inputs such as self-assessments and AI analytics are processed by an algorithmic engine, forming profiles that indicate strengths and readiness. The Development layer subsequently recommends personalized experiences through Classes, Challenges, Coaching, and Competitions to support continuous talent development.

The following subsections briefly discuss the research methodology for multi-talent discovery and development.

A. Refinement and Consolidation of Multi-Talent Categories

Drawing from Gardner's foundational eight intelligences (linguistic, logical-mathematical, spatial, musical, naturalistic, bodily-kinesthetic, interpersonal, and intrapersonal) [8], we have redefined these categories in terms accessible to children and integrated emerging subdomains such as existential, moral, and pedagogical intelligences. This integration combines intrapersonal capabilities with existential/moral dimensions under Self-Awareness &

Reflection, while merging interpersonal functions with pedagogical aspects under People & Leadership. Furthermore, we introduced a cross-cutting digital intelligence layer, reflecting the consensus that digital fluency and socioemotional competencies are intertwined across all talent areas [19], [20]. This consolidation resulted in eight comprehensive categories: Thinking & Problem-Solving; Language & Expression; Visual Arts & Design; Body & Movement; Music & Rhythm; Nature & Environment; People & Leadership; Self-Awareness & Reflection, each enhanced by digital dynamics.

B. Development of the 5D+4C Framework

Guided by Howard Gardner's MI theory and Gagné's Differentiated Model of Giftedness and Talent (DMGT) [21], we developed a 5D Framework that includes the following components:

- Discovery: The identification of children's most pronounced multi-talent profiles through diverse assessment methods.
- Development: The provision of structured skill development opportunities through customized learning experiences.
- Drive: Cultivation of growth mindsets and intrinsic motivation
- *Digital*: The integration of interactive technologies to support and enhance the learning process.
- *Dynamics*: The acknowledgment of contextual factors such as family, peers, and cultural background that influence the pathways of talent development.

In addition to the 5Ds, the 4C Method facilitates the implementation of programs through the following components:

- Classes: Specialized masterclass modules aimed at each multi-talent domain.
- Challenges: Project- and problem-based tasks fostering application and creativity.
- *Coaching*: Mentorship provided by educators and diaspora volunteers, offering personalized support.
- Competitions: Collaborative contests and showcases that establish performance objectives and allow for peer feedback.

This framework integrates principles of constructivist Project-Based Learning (PBL) with motivational theories [22], ensuring that the activities are both engaging and conducive to fostering autonomy, competence, and social connection.

C. Pilot Study and Preliminary Exploratory Analysis

To assess feasibility and obtain empirical insights, we conducted a pilot study involving 32 children (ages 7-17) from Kigali, Rwanda, and Luanda, Angola. Participants were recruited through social groups within immigrant communities and diaspora networks, with parental consent and child assent secured.

Instrument Design: We created a 40 items questionnaire that included four Likert-scale items for each multi-talent category (1 = "Strongly Disagree" to 5 = "Strongly Agree"), ensuring age appropriateness. Sample items comprised statements such as "I enjoy solving puzzles" for Thinking & Problem-Solving, and "I notice music patterns" for Music & Rhythm. Additionally, we utilized a five-item Exploration Readiness Index (ERI) derived from growth mindset scales to measure participants' openness to challenges, exemplified by the statement "I keep trying when things are hard".

Data Collection and Analysis: We calculated total scores for each domain to create individual talent profiles; the ERI yielded an overall "Drive" score ranging from 5 to 25. Qualitative data from two open-ended questions about recent self-discoveries and "dream projects" provided further contextual insights. Due to the sample size, the analysis was descriptive and exploratory; we calculated means, standard deviations, and Cronbach's alpha for internal consistency (α

ranged from .52 to .80). We also performed Pearson correlations to explore relationships between ERI and talent scores. An exploratory cluster analysis (k-means, standardized scores) tentatively identified three participant profiles (e.g., "High-All Explorers," "Balanced-Kinesthetic Socials"), which guided hypotheses for tailored 4C recommendations.

Framework Refinement: Insights from the pilot study led to revisions of the instrument, improving item clarity in domains with lower reliability (Language & Expression $\alpha = .52$; Music & Rhythm $\alpha = .47$) and incorporating nuanced prompts to address ceiling effects observed in Body & Movement and People & Leadership (Cronbach's $\alpha = .64$ –.69). We also learned to modify the ERI items to better explore participants' comfort with failure and their self-directed curiosity.

D. Ethical Considerations and Next Steps

All research procedures were conducted in accordance with ethical standards regarding research involving minors, thus safeguarding participant confidentiality and ensuring voluntary participation. The pilot study acted as a feasibility assessment for both the research instruments and the methodologies employed on the platform. Future research initiatives aim to expand the sample size to at least 500 participants across various regions, which will involve conducting confirmatory factor analyses, longitudinal growth modelling, and randomized evaluations of targeted 4C interventions. The incorporation of AI-driven analytics will facilitate the generation of personalized recommendations, thereby fulfilling the iterative cycle of design-based research that is advocated for educational innovations [23].

IV. FINDINGS AND DISCUSSIONS

The pilot implementation of Smart Kids Connect provided valuable insights into the expression of children's diverse talents across various domains, as well as the intersections of these profiles with motivation, learning preferences, and cultural contexts as presented in Table I. In the following sections, we combine both quantitative and qualitative findings, emphasizing their implications for the 5D+4C framework and proposing enhancements for subsequent iterations.

	TABLE I.	MEAN SCORES AND STANDARD DEVIATIONS ACROSS MULTI-TALENT DOMAINS AND ERI (N=32)
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Multi-talent Domain	Mean	SD	Min	Max	Skew	Kurtosis	Cronbach α
Thinking and Problem-Solving	14.28	2.81	9	18	-0.46	-0.92	0.59
Language and Expression	13.25	3.24	6	20	-0.32	-0.09	0.52
Visual Arts and Design	15.69	3.44	8	20	-0.74	-0.47	0.73
Body and Movement	15.88	2.90	8	20	-1.15	1.36	0.64
Music and Rhythm	14.72	3.02	7	20	-0.48	0.32	0.47
Nature and Environment	14.59	3.54	9	20	0.09	-1.43	0.79
People and Leadership	15.94	2.90	8	20	-0.83	0.52	0.69
Self-Awareness and Reflection	7.44	1.72	4	10	-0.53	-0.75	0.66
Exploration Readiness Index (ERI)	20.19	3.60	9	25	-0.92	1.41	0.80

A. Multi-Talent Profiles

Each participant displayed a unique array of strengths across the eight integrated multi-talent domains. On a 1 - 5 scale (totalling 4 - 20 per domain), the cohort's average scores were highest in People & Leadership (M \approx 15.9, SD = 2.9) and Body & Movement (M \approx 15.8, SD = 2.9), indicating strong interpersonal and kinesthetic tendencies. Visual Arts & Design (M \approx 15.7, SD = 3.4) and Music & Rhythm (M \approx 14.7, SD = 3.0) also received high scores, while Language & Expression had comparatively lower ratings (M \approx 13.3, SD = 3.2). In the Self-Awareness & Reflection domain (on a 2 -10 scale), the average was M \approx 7.4 (SD = 1.7), corresponding with the other talent areas. These findings suggest that no single domain is predominant; rather, each child's unique profile calls for tailored pathways for exploration and growth. For instance, the lower scores in Language possibly affected by environments focused on second-language acquisition indicate the need for integrating mother-tongue storytelling and gamified writing tasks to enhance verbal confidence.

B. Exploration Readiness and Growth Mindset

The Exploration Readiness Index (ERI) averaged M \approx 20.2 (SD = 3.6) out of 25, with over 75% scoring above 18. High ERI scores correlated positively with most talent domains (r \approx .53 – .71), indicating that children who believe in effort driven growth tend to report broader strengths. Many children explicitly articulated this mindset: one ten-year-old noted, "When I work hard, I can learn anything," exemplifying the intrinsic Drive critical to our framework. Conversely, a small subset (ERI < 12) expressed uncertainty, underscoring the need for early, supportive Coaching interventions to cultivate resilience and curiosity before advancing to more challenging modules.

C. Talent Clusters and Personalized Pathways

K-means clustering (k = 3) on standardized domain mean scores revealed three learner archetypes, as listed in Table II:

Cluster A: High-All Explorers (n = 10) – Uniformly high across every measure: Thinking & Problem-Solving (M = 17.70), Language & Expression (M = 16.80), Visual Arts & Design (M = 18.30), Body & Movement (M = 17.80), Music & Rhythm (M =16.90), Nature & Environment (M = 17.50), People & Leadership (M = 18.20), and Self-Awareness & Reflection (M = 8.60/10). Their ERI of 22.20/25(Very High) underscores a strong growth mindset and readiness for self-directed exploration. The recommended pathway for this cluster is advanced Competitions + Coaching, such as robotics hackathons, invention showcases, or cross disciplinary challenge supported by expert mentors to push these young polymaths toward ambitious, independent projects.

TABLE II. CLUSTER PROFILES: DOMAIN MEANS AND ERI BY LEARNER ARCHETYPE

Cluster	Count	Percent
Cluster A - High-All Explorers	10	31.25%
Cluster B - Balanced-Kinesthetic	12	37.50%

Cluster	Count	Percent
Cluster C - Moderate Generalists	10	31.25%

- Cluster B: Balanced-Kinesthetic (n = 10) Elevated in Body & Movement (M = 16.20) and People & Leadership (M = 16.50), with solid showings in Visual Arts & Design (M = 15.40), Music & Rhythm (M = 14.80), and Nature & Environment (M = 14.50). Their Thinking & Problem-Solving (M = 14.10) and Language & Expression (M = 13.30) scores are moderate, and Self-Awareness & Reflection sits at M = 7.30/10. With an ERI of 18.00/25 (High), these children have the confidence to engage but benefit from structured support. Recommended pathway for this group is immersive Challenges + Coaching, such collaborative design sprints, team-based environmental projects, or group movement workshops that leverage their social-kinesthetic strengths while gradually weaving in analytical and expressive exercises.
- Cluster C: Moderate Generalists (n =) All eight domains cluster in the mid-range (M between 11.00 and 14.00): Body & Movement leads at M = 14.00, followed by Thinking & Problem-Solving (M = 12.80), Visual Arts & Design (M = 13.00), Music & Rhythm (M = 13.20), People & Leadership (M = 13.40), Nature & Environment (M = 12.10), Language & Expression (M = 11.00), with Self-Awareness & Reflection at M = 6.40/10. Their ERI of 13.50/25 places them squarely in the Moderate band—they're curious but may hesitate without clear guidance. The recommended pathway for this cluster is foundational Classes + Coaching, for example mixed - domain "Skills Sampler" workshops (intro to coding, basic art techniques, simple rhythm exercises) paired with one-on-one mentoring to build both competence and confidence gradually..

These clusters validate the necessity of the 4C method's adaptive sequencing: Classes to establish foundations, Coaching to nurture mindset, Challenges to apply skills, and Competitions to accelerate mastery.

D. Qualitative Aspirations and Cultural Dynamics

Open-ended responses revealed the impact of personal and cultural contexts on talent aspirations. Multiple participants from Rwanda articulated STEMoriented "dream projects" (such as developing assistive robots or creating sustainable housing), often inspired by their parents' occupations. This observation is consistent with our "Dynamics" dimension, which highlights how family background and community values shape both talent discovery and development. Additionally, other children expressed creative goals-such as designing fashion lines or composing original music-which corroborated their elevated scores in the arts and music domains. These narratives emphasize the importance of diaspora engagement: connecting learners with role models who share similar cultural backgrounds can expand their opportunities and reinforce their identities. For instance, inviting diaspora engineers to conduct virtual

robotics workshops can effectively merge local relevance with global best practices.

E. Implications for Digital-PBL Integration

In line with previous research on Digital Project-Based Learning (D-PBL), the integration of asynchronous modules and synchronous cohort sessions was crucial in maintaining participant engagement. Respondents highlighted video editing and interactive simulations as highly motivating elements, while live workshops facilitated accountability and enhanced peer learning. However, fully self-paced content posed a risk of procrastination, particularly among students with lower Exploration Readiness Index (ERI) scores. Consequently, the Smart Kids Connect platform should prioritize scheduled collaborative events such as virtual hackathons, peer review sessions, and community showcases to sustain engagement and progression.

F. Refinement and Future Research Directions

The psychometric evaluation of the pilot study (Cronbach's $\alpha = .47-.80$) identified specific domains that require item modification, particularly Language & Expression and Music & Rhythm, while also revealing areas that exhibited ceiling effects, such as Body & Movement and People & Leadership. Future versions will integrate more detailed items, such as differentiating between melodic and rhythmic skills, and will enhance the Exploration Readiness Index (ERI) to examine perseverance in the face of failure. Expanding the study to include larger, more diverse samples (N \geq 500) will facilitate confirmatory factor analysis, longitudinal monitoring of talent growth, and randomized assessments of targeted 4C interventions. The adoption of AI-driven analytics will further personalize the learning experience by suggesting domain-specific challenges based on realtime performance metrics.

V. CONCLUSION AND FUTURE WORK

This study advances a coherent, data-informed approach to multi-talent discovery and development through an integrated 5D+4C framework operating within digitally augmented environments. operationalized eight Gardner-aligned domains and an Exploration Readiness Index (ERI) to generate learner that integrate self-assessment, item-level psychometrics, clustering, and qualitative narratives. The pilot demonstrated that children exhibit diverse, multidimensional strengths; that ERI aligns meaningfully with cognitive-social domains; and that three robust archetypes emerge—"High-All Explorers," "Balanced-Kinesthetic Socials," and "Moderate Generalists." Qualitative aspirations and family context cohered with these profiles, reinforcing ecological validity. Psychometric diagnostics indicated acceptable-to-strong consistency for several domains and the ERI, alongside areas requiring refinement (notably Language & Expression and Music & Rhythm) and ceiling effects in People & Leadership and Body & Movement. Inter-domain analyses suggested a cognitivesocial nexus and partial convergence into fewer "superdomains," while EFA supported several intended constructs and flagged cross-loading items. Collectively, these results substantiate the framework's capacity to

translate discovery into personalized development pathways: Classes for foundational skill-building, Coaching to nurture mindset and transfer, Challenges for applied practice, and Competitions for advanced mastery.

Future work will scale implementation across diverse regions to enable confirmatory factor analyses, growthcurve modeling, and rigorous evaluation of causal effects for the 4C interventions. Instrument revisions will sharpen construct coverage (e.g., differentiating melodic vs. rhythmic competencies; extending high-difficulty items to mitigate ceiling effects; strengthening ERI around persistence and adaptive coping). The platform will evolve into a hybrid recommender system combining rule-based logic with machine-learning models that draw on domain scores, ERI, cluster membership, engagement traces, and text embeddings of learners' aspirations to sequence content adaptively. Program design will deepen Digital Project-Based Learning by balancing asynchronous modules with scheduled, collaborative events and by leveraging diaspora and community expertise for culturally responsive mentorship. As the data repository grows, the platform will also serve as a research infrastructure to study how specific intervention mixes influence talent growth and motivational trajectories, informing policy and practice toward more learnercentered, talent-oriented education.

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REFERENCES

- [1] O. Shults and I. Bessarabova, "Conceptualisations of children's life skills development within holistic approach in Southern Russia," in SHS Web of Conferences, EDP Sciences, 2018, p. 01212
- [2] C. M. Pattiruhu, K. Makulua, N. Thalib, and B. S. Pandia, "Integrative Holistic Learning Strategies in Early Childhood Education.," *Al-Hijr: Journal of Adulearn World*, vol. 2, no. 4, 2023
- [3] A. Ulzytueva, N. Vinogradova, and O. Ulzutueva, "The main directions of education development in the conditions of digitalization," in E3S Web of Conferences, EDP Sciences, 2021, p. 12056.
- [4] S. Alyafai, N. Marni, and W. Al-Douri, "The Evaluation of Gifted Students A Systematic Literature Review (SLR)," International Journal of Academic Research in Progressive Education and Development, vol. 13, Jan. 2024, doi: 10.6007/IJARPED/v13-i1/18773.
- [5] T. Embaye, Z. Bogdanović, and S. I. Belay, "Digital project-based learning for kids: A case study of start-up kids campus," in E-business technologies conference proceedings, 2023, pp. 276–282.
- [6] S. Zheng, K. Venkatakrishnan, and B. B. Kennedy, "How resilient were we in 2021? Results of a LinkedIn Survey including biomedical and pharmaceutical professionals using the Benatti Resiliency Model," *Clin Transl Sci*, vol. 15, no. 10, pp. 2355–2365, 2022.
- [7] B. Villarejo, "Lifelong kindergarten: cultivating creativity through projects, passion, peers, and play," *REMIE*

- Multidisciplinary Journal of Educational Research, vol. 9, no. 3, p. 349, 2019.
- [8] B. Cavas and P. Cavas, "Multiple intelligences theory—Howard Gardner," in Science education in theory and practice: An introductory guide to learning theory, Springer, 2020, pp. 405-
- [9] T. Armstrong, Multiple intelligences in the classroom. Ascd,
- [10] E. R. Lai and M. Viering, "Assessing 21st Century Skills: Integrating Research Findings.," Pearson, 2012.
- [11] L. Basgall, F. D. Guillén-Gámez, E. Colomo-Magaña, and A. Cívico-Ariza, "Digital competences of teachers in the use of YouTube as an educational resource: analysis by educational stage and gender," Discover Education, vol. 2, no. 1, p. 28, 2023.
- D. S. Yeager and C. S. Dweck, "What can be learned from growth mindset controversies?," *American psychologist*, vol. 75, [12] no. 9, p. 1269, 2020.
- S. Ndiung, E. Jehadus, and R. A. Apsari, "The Effect of [13] Treffinger Creative Learning Model with the Use RME Principles on Creative Thinking Skill and Mathematics Learning Outcome.," International Journal of Instruction, vol. 14, no. 2, pp. 873–888, 2021. "Skills for the Future Global Platform," UNESCO's Global Skills
- [14] Academy .
- [15] H. David and E. Gyarmathy, "Supporting and Encouraging the Versatile Gifted Child and Adolescent," in Gifted Children and Adolescents Through the Lens of Neuropsychology, Springer, 2023, pp. 1-14.
- [16] M. Chand, "Leveraging the diaspora for Africa's economic development," Journal of African Business, vol. 17, no. 3, pp. 273–290, 2016.

- [17] A. Negash, "Africans in the Diaspora: Innovation, Entrepreneurship, Investment, and Human Capital Development," in Routledge International Handbook of Diaspora Diplomacy, Routledge, 2022, pp. 169–180.
- [18] V. Y. Atiase, O. Kolade, and T. A. Liedong, "The emergence and strategy of tech hubs in Africa: Implications for knowledge production and value creation," *Technol Forecast Soc Change*, vol. 161, p. 120307, 2020.
- [19] S. Forutanian, "Digital literacy, competence, identity and intelligence: The four teachers' essential skills in 21st century," International Journal of English Language Studies, vol. 3, no. 1,
- T. Rahman, A. Amalia, and Z. Aziz, "From digital literacy to [20] digital intelligence," in 4th International Conference on Sustainable Innovation 2020-Social, Humanity, and Education (ICoSIHESS 2020), Atlantis Press, 2021, pp. 154–159.
- F. Gagné, "The Differentiating Model of Giftedness and Talent," [21] in Handbook for Counselors Serving Students With Gifts and Talents, Routledge, 2021, pp. 9-28.
- R. M. Ryan, E. L. Deci, M. Vansteenkiste, and B. Soenens, [22] "Building a science of motivated persons: Self-determination theory's empirical approach to human experience and the regulation of behavior.," Motiv Sci, vol. 7, no. 2, p. 97, 2021.
- [23] D. R. Squires, "The Convergence of AI, Design-Based Research, and the Learning Sciences: A Potential Journey Marking AI's Integration into the Academy.," i-Manager's Journal of Educational Technology, vol. 20, no. 3, 2023.