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Precision Learning in Remote Regions: A Geospatial-AI Framework for Global Educational Equity

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This whitepaper is created to summarize how Precision Learning can improve the access and leaning outcomes based educational access to low and deprived socially economic background in remote regions through Deepspatial GeoAI technology.



Deepspatial Inc.
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Executive Summary

Despite decades of global progress in expanding educational access, remote, underserved, and marginalized regions around the world continue to face persistent inequities in both access to schooling and learning outcomes. There are certain challenges in conventional framework which is often fails due to the geographic, socio-cultural, and infrastructural challenges that shape educational experiences in such regions and not one-size-fits-all policy frameworks. To address these persistent gaps, a precision learning models grounded in data-driven, location-specific insights are urgently required. Therefore, this white paper demonstrates a cutting-edge framework developed by Deepspatial's AI that applies Geospatial Artificial Intelligence (GeoAI) combined with Learning Outcome (LO)-based assessment methodologies to support precision learning in remote and high-need environments globally. This Geospatial Artificial Intelligence framework supports the precision learning in remote regions by integrating spatial data, AI algorithms, and real-time analytics. Thus, by mapping educational resources, learner needs, and socio-environmental conditions, the approach offers actionable insights for educational disparities and guided the targeted interventions. Moreover, the proposed framework is not only a technological innovation but also suggests the state and district authorities to map the learning outcome gaps at the school and block level, cluster student performance by gender and school type, and priorities the interventions using the advanced machine learning models trained on multidimensional datasets. Thus, utilizing the scalable, and ethical approach, Deepspatial AI leverages the stakeholders from school, parents, teachers, government authorities and policymakers in recognizing the last-mile learners, optimizing training programs, and deploying region specific resources. This framework offers a transformative pathway for improving educational equity and learning outcomes across diverse global contexts.

1. Introduction

Education is universally recognized as a fundamental human right and a powerful catalyst for social mobility, economic growth, and sustainable development. Yet, millions of children in remote, marginalized or crisis-affected communities are deprived of quality education due to geographic inaccessibility, poor infrastructure, and insufficient teacher support. According to UNESCO, over 244 million children and youth are out of school

globally, with a large proportion concentrated in rural and conflict-prone areas[1]. These inequities unreasonably affect the children from original communities, ethnic minorities, girls in conservative societies, and learners living in fragile environments such as small island nations, mountainous regions, and humanitarian crisis zones.

While global school enrollment has improved over the past decades, access alone has not translated into meaningful learning. UNESCO, the World Bank, and UNICEF like International agencies highlight a growing global "learning crisis". According to the World Bank (2022), nearly 70% of children in low- and middle-income countries cannot read a simple text by age 10, and foundational numeracy shows similar deficits[2]. These learning gaps are especially severe in regions with multi-grade classrooms, high teacher absenteeism, limited connectivity, and chronic underinvestment in educational systems. Compounding this challenge is the renewed rise in the global out-of-school population. A recent report by UNESCO's Global Education Monitoring team reveals that over 272 million children worldwide are currently out of school a sharp increase of more than 21 million from previous estimates[3]. The rise is driven by population projections, updated enrollment data, and factors like the ongoing ban in different geographical locations. With countries projected to fall short of their national education targets of 75 million students by 2025, the report warns that global efforts to achieve universal education are significantly off track. Although projection suggests that the global out-of-school population could decline by 165 million by 2030 if countries successfully meet their Sustainable Development Goal 4 (SDG 4) commitments, the analysis anticipates a four- to six-percentage-point shortfall by 2025, particularly affecting primary, lower-secondary, and upper-secondary age groups[3]. This widening gap highlights the urgent need for transformative and systemic educational innovations.

Traditional educational planning in many countries continues to rely on macro-level indicators and aggregated assessments, which fail to capture localized disparities such as community-level learning loss, gender gaps, school-type differences, or the unique challenges faced by geographically isolated populations. As a result, interventions are often resource-intensive, slow to deploy, and poorly aligned with the lived realities of learners in remote or underserved regions. Moreover, existing models of intervention are resource-intensive, delayed, and often misaligned with ground realities in remote areas. Hence, Deepspatial innovative technology leverages Geospatial Artificial Intelligence (GeoAI) to map the educational access and inequities, identify underserved populations, and support precision planning for school infrastructure, teacher deployment, and learning resource allocation.

1.1. Objectives:

This paper outlines the architecture and implementation of Advanced GeoAI digital platform. The system uses the datasets and Geospatial AI to map the learning gaps, identify educational disparities in remote regions, and proposes a roadmap for evidence-based, and last-mile focused educational policy. By embedding the machine learning and geospatial analytics in the decision-making pipeline, it aims to support the UNESCO Sustainable Development Goals 4 -Quality Education for All. This white paper aims are:

- Present a conceptual and technical framework for mapping regional, sub-regional, and community-level learning gaps using learning-outcome-tagged assessment data, adaptable to different education systems across continents.
- To demonstrate how school category, gender, socio-economic background, linguistic groups, and other inclusion indicators can be incorporated into performance clustering to detect patterns of inequity at scale.
- To show how GeoAI-powered predictive models can be applied in diverse global contexts forested regions, mountainous terrains, conflict-affected areas, island nations, nomadic populations to personalize learning pathways and support hard-to-reach learners.
- To outline actionable and policy-aligned deployment pathways that integrate the GeoAI platform with:
    - UNESCO SDG-4 (Quality Education).
    - UNICEF Child-Friendly Schools framework.
    - OECD Learning Compass 2030.
    - World Bank Human Capital Project.
    - Regional and national education reforms (as applicable to any country).
- Highlight ethical and governance considerations and policy recommendations for targeting last-mile learners.

Hence, by integrating the spatial intelligence with the educational equity goals, the framework advocates for a proactive, anticipatory model of intervention one that ensures no learner is left behind, regardless of their location. Further, the AI models recommend localized interventions and enhancing education equity by utilizing the AI technology-informed policy decisions.

2. Role of Technology in Bridging the Learning Divide

The role of Artificial Intelligence (AI) is rapidly growing and becoming an epicenter of economic development and growth. Artificial Intelligence has tremendous applications in various fields such as education, health, commerce, agriculture, manufacturing, public service delivery, social media, and governance. AI worldwide contributes to achieve the United Nations Sustainable Development Goals (SDGs) through implementation of Science, Technology, and Innovation Strategy. Recently, Geospatial Artificial Intelligence (GeoAI) is education gaining much attention and a new area of combining spatial science with AI to aid in the visualization of patterns and bring insight. Geographic Information System (GIS) technology is one of the valuable information systems for accurate mapping and location related issues in geospatial research, students school access, and other associated field by combining various spatial data with numerous attributed data, and modelling techniques of spatial analysis[4].

Despite global efforts to expand access to quality education, significant inequalities persist across regions especially in low-resource, conflict-affected, rural, and indigenous communities. These inequities manifest in gaps in foundational literacy and numeracy, inadequate teacher deployment, limited digital infrastructure, and geographic isolation. International assessments such as UNESCO's *Global Education Monitoring Report* and the World Bank's *Learning Poverty Index* consistently highlight deep-rooted challenges that hinder global progress toward equitable learning outcomes. In response, emerging approaches that combine GeoAI, Machine Learning, and Learning Outcome–aligned assessment frameworks offer a powerful means to detect complex patterns of inequity and identify communities most at risk of being left behind. Using a scalable and ethical approach, the GeoAI platform support the policymakers in identifying last-mile learners, optimizing training programs, and deploying resources where they are most needed. This aligns with the global best practices outlined in reports by UNESCO (2021) and Brookings Institution (2020), which emphasize the role of spatial analytics and AI in transforming educational equity[5,6]. Moreover, Geospatial Intelligence has been utilized to map and access the schools and monitor learning outcomes in other regions like sub-Saharan Africa and Southeast Asia. The UNICEF Learning Passport and UNESCO's AI in Education initiative further validate the potential of such integrated data approaches.

Over a globally adaptable and morally grounded framework, GeoAI provides policymakers, researchers, and development organizations with critical insights for addressing last-mile educational challenges helping to ensure that learning

opportunities reach all children, regardless of geography, socio-economic background, or systemic barriers.



Figure 1: Role of technology in bridging the digital divide.

2.1. Learning Outcomes-Based Program:

A Learning Outcomes–Based Program in school education is an internationally recognized approach that organizes teaching, learning, and assessment around clearly defined, and measurable competencies that students are expected to acquire at each stage of schooling. This model promotes quality, equity, and accountability in education systems by ensuring that learning expectations are transparent, evidence-based, and aligned with global benchmarks. Across the world, governments and education authorities are increasingly adopting learning-outcomes frameworks as part of broader reforms aimed at improving student achievement and readiness for the demands of the 21st century. These reforms typically emphasize:

- **Child-centered, activity-based pedagogies**, ensuring that learning is engaging, inclusive, and responsive to diverse learner needs.
- **Competency-based curricula** that move away from content memorization toward higher-order thinking skills, problem-solving, creativity, and real-world application.
- **Grade-wise or stage-wise learning outcomes** for each subject to guide teachers, curriculum designers, and assessment bodies in structuring progressive learning pathways.

- **Curriculum reforms led by national and international education frameworks** such as those supported by UNESCO, OECD, and global learning assessments (e.g., PISA, TIMSS), which encourage evidence-driven, outcomes-based planning.

Collectively, these elements support countries that creates coherent, equitable, and future-ready education systems, enabling learners to attain foundational skills, develop lifelong learning capabilities, and thrive in an increasingly complex global landscape.

3. Concept of Precision Learning

Educational psychologists play a critical role in assessing, supporting and enhancing the student outcomes. Precision teaching and learning could amplify the capacity to serve the struggling students and is an emerging paradigm in education that uses real-time, multidimensional data to tailor instruction, content delivery, and assessment to individual learner needs. In education, the AI model uses data on learner background, performance, and context to deliver customized interventions that maximize learning outcomes.

Precision learning is particularly relevant for remote regions, where heterogeneity in learning levels, language diversity, and environmental constraints are prevalent. However, its implementation requires advanced tools to collect, analyze, and visualize data a role ideally suited for Geospatial Artificial Intelligence. Geospatial Artificial Intelligence (GeoAI) integrates geographic information systems (GIS) with machine learning, enabling spatial analysis at scale and can be harnessed to:

- Map schools, teacher distribution, and infrastructure gaps.
- Analyze socio-economic, environmental, and demographic variables affecting learning.
- AI models to prioritize interventions (training, resource deployment) and predicts future needs assessment.
- Policy recommendations for targeting last-mile learners.

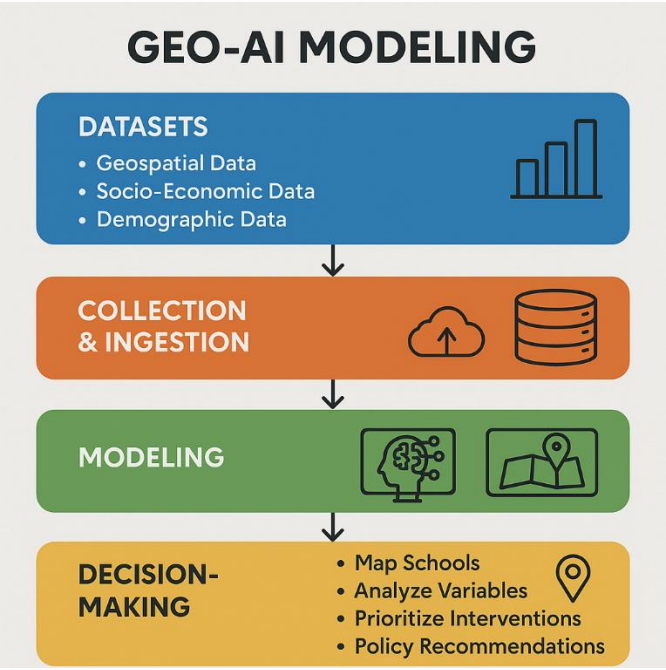


Figure 2: Geo-AI modeling flow from datasets collection, ingestion, modeling, and decision-making.

4. Challenges and Barriers

Education is universally recognized as the cornerstone of the social progress, a catalyst for the personal development, and a vital engine of economic growth. The global movement is to guarantee that every person has access to high-quality education which still faces several challenges, especially in rural, conflict-affected, remote, and marginalized regions across the world. Many countries have expanded access to schooling over the past two decades, with global primary school enrolment approaching 90%[1]. However, quality, equity, and continuity of education remain pressing concerns. More than half of the world's children live in regions where schooling systems are under-resourced or structurally fragile. Students in such areas confront a range of persistent challenges, including:

- **Inadequate infrastructure:**

  Across low- and middle-income countries, thousands of schools lack essential infrastructure such as reliable electricity, functional classrooms, sanitation facilities, or access to digital networks. According to UNICEF, over 50% of schools in sub-Saharan Africa lack internet access, and many still operate without stable power sources significantly limiting opportunities for digital learning or technology-enabled instruction[7].

- **Teacher shortages and uneven deployment:**
  Globally, UNESCO estimates a shortage of 44 million teachers needed to achieve universal basic education by 2030[8]. Rural and remote schools often experience chronic understaffing, high teacher turnover, and reliance on multi-grade teaching, all of which weaken instructional quality and learning continuity.
- **Socio-Economic barriers:**
  Poverty, food insecurity, parental education levels, and household responsibilities continue to influence school attendance and learning outcomes. In many communities across Africa, Latin America, and Southeast Asia, students face pressures such as child labour, migration, or unstable family environments, which disrupt sustained participation in schooling.
- **Poor transport and physical access:**
  Geographical barriers such as mountainous terrain, desert regions, island communities, and conflict-prone borders make it difficult for children to access the school safely. Long travel distances, lack of public transport, and unsafe routes disproportionately contribute to dropouts among girls and children with disabilities.
- **Gender-based disparities:**
  Globally, gender norms, early marriage, safety concerns, and household responsibilities still restrict girls' education in many regions. Adolescent girls are particularly vulnerable to exclusion during humanitarian crises, with UNESCO noting that girls in conflict-affected areas are 2.5 times more likely to be out of school compared to boys.
- **Linguistic, cultural, and conflict-related barriers:**
  Linguistic minorities, nomadic populations, indigenous communities, and refugees often face learning environments that are not culturally or linguistically aligned with their needs. In conflict-affected areas spanning parts of the Middle East, Africa, and Eastern Europe, schools may be intermittently closed, destroyed, or operated with limited staff due to displacement, violence, or political instability.

In response to these widespread challenges, global education frameworks including UNESCO's Education 2030 Agenda, UNICEF's Foundational Learning Initiative, and World Bank EdTech and Systems Reform Programs are increasingly emphasizing equity, inclusion, and data-driven planning. Therefore, by integrating real-time geospatial data with machine learning, GeoAI can map education inequities, identify underserved populations, forecast infrastructure gaps, support teacher deployment strategies, and inform equitable resource allocation. This precision-based approach

offers countries regardless of region a powerful mechanism to address systemic disparities and accelerate progress toward universal, high-quality education.

5. Solution Approach

Deepspatial AI leverages its patented, geospatially contextualized Artificial Intelligence model to address systemic challenges in remote, conflict-affected, and underserved regions of within global K–12 education ecosystems. The solution provides a precision learning ecosystem that identifies the root causes of low learning outcomes and enables targeted, data-driven interventions at the student, school, block, and district levels. At the core of this solution lies a multi-layered AI model that synthesizes disparate datasets including geospatial, educational, demographic, environmental, and infrastructural to deliver actionable insights that empower stakeholders across government, international development agencies, and civil society.

Key Functional Capabilities:

- **Factors identification for Low Learning Outcomes:** Using machine learning and causal inference, the AI model detects the key determinants contributing to poor learning performance in remote regions (e.g., absenteeism, poor teacher deployment, infrastructure gaps, or socio-economic barriers).
- **Block and District-Level Education Intelligence:** Granular spatial insights are generated to help planners understand the education landscape at micro-geographies, enabling prioritized interventions for schools most at risk of falling behind.
- **Personalized and Predictive Learning Mapping:** The system predicts individual and school-level learning trajectories, suggesting targeted remedial or enrichment programs aligned with learners' needs.
- **Dynamic Policy Simulation:** AI technology empowers the policymakers to simulate the impact of investments or reforms (like teacher training, infrastructure upgrades) on learning outcomes.

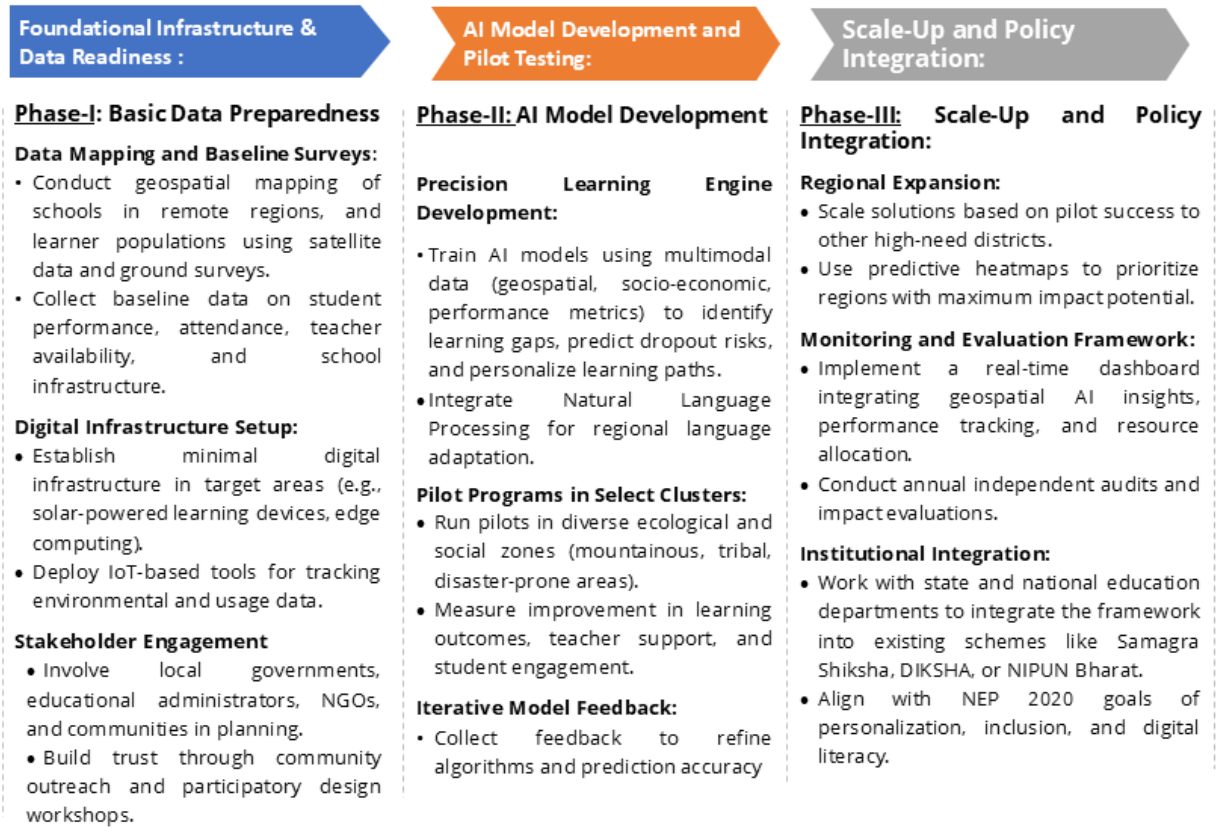


Figure 3: Deepspatial's AI Solution Approach.

6. Policy Alignment and Governance Frameworks

Globally, the education systems are increasingly adopting the data driven and AI-enabled models, yet most countries still lack a unified regulatory framework governing the use of Artificial Intelligence, geospatial analytics, and digital learning platforms in K–12 environments. However, several regions have developed AI ethics guidelines and digital education strategies, globally there remains a governance gap in areas such as data sovereignty, algorithmic transparency, spatial-data ethics, and community-centric decision-making. International education policies emphasize principles that are fundamental to Precision Learning, including:

- **Localization and contextual adaptation of digital content**

  A principle echoed by frameworks from UNESCO, OECD, African Union's Continental Education Strategy (CESA), European Commission's Digital Education Action Plan, and similar initiatives across Asia-Pacific and Latin America. These policies stress that learning resources and AI-driven insights must adapt to local cultures, geographies, and community needs.

- **Responsible and ethical use of AI**

  Many global policy bodies such as the OECD AI Principles, UNESCO's Recommendation on the Ethics of Artificial Intelligence (2021), and Council of Europe guidelines call for fairness, explainability, and accountability in the deployment of educational AI systems.

- **Digital transformation in education**

  Numerous regions have established digital learning missions or platforms, similar in spirit to national initiatives worldwide, including:

  - UNESCO's Global Education Coalition
  - European Commission's Digital Education Action Plan (2021–2027)
  - African Union's Digital Transformation Strategy (2020–2030)
  - ASEAN Digital Masterplan 2025
  - Inter-American Development Bank's EdTech strategy
  - National Policy on Education 2020 Framework (Indian context).

Together, these global initiatives collectively highlight the urgent need for coordinated governance architectures, especially for technologies that integrate AI, geospatial intelligence, and precision-learning diagnostics.

7. Impact Assessment

a. Educational Equity Metrics:

- **Access to Learning Resources**: Percentage increase in students accessing curated, contextualized learning materials based on geospatial clustering of educational deprivation.
- **Infrastructure Availability**: Mapping before-and-after conditions of school infrastructure, using satellite imagery and GIS overlays.
- **Inclusivity Index**: Disaggregation of learner data by gender, disability, caste/tribe, and location to ensure marginalized groups are not excluded.

b. Learning Outcome Indicators:

- **Performance Improvement**: Measured through pre- and post-intervention assessments, with AI-generated personalized learning paths.
- **Adaptive Learning Gains**: Metrics such as retention rate, topic mastery, and time-on-task for learners with AI-curated content.
- **School Readiness and Attendance**: Correlating learner engagement with local environmental and socioeconomic factors using geospatial data.

c. Technological Penetration and Usage:

- **Device and Connectivity Penetration**: How many learners and educators have gained access to digital learning tools since implementation.
- **Teacher-Tech Readiness**: Evaluating how well teachers have adopted precision tools and their integration into pedagogy.



Figure 4: Impact assessment through technology penetration in remote region.

8. Recommendations

The strategic recommendations for implementing the precision learning in remote region are given below:

8.1 For Policymakers:

- **Embed Geospatial-AI in National/Regional Educational Planning**
  - Institutionalize use of location intelligence in planning school construction, teacher deployment, and digital resource allocation.
- **Mandate Open Educational Data Sharing**
  - Develop interoperable and anonymized datasets from multiple ministries (education, tribal welfare, rural development).

- **Incentivize Public-Private Partnerships**
    - Provide grants or tax incentives to EdTech and AI firms working on rural and remote education challenges.

8.2 For Technology Providers and Researchers:

- **Design for Low-Connectivity Environments**
    - Prioritize edge-AI, offline-compatible applications, and lightweight AI models for rural deployment.
- **Ensure Ethical AI Design:**
    - Build models that are interpretable and inclusive, avoiding algorithmic bias against marginalized learners.
- **Open Source and Knowledge Sharin**
    - Release models, datasets, and results from pilots as open resources to accelerate replication.

8.3 For Educators and Local Administrators:

- **Capacity Building**
    - Conduct regular teacher training on interpreting AI-generated insights and using precision tools for lesson planning.
- **Community-Led Monitoring**
    - Empower local School Management Committees (SMCs) with the geospatial tools to track the school development and hold systems accountable.

8.4 Long-Term Vision (5–10 Years):

- **Precision Learning Index for Equity Monitoring**
    - Develop a national index combining geospatial coverage, AI-aided personalization, and outcome equity to monitor progress.
- **Sustainable Community-Driven Ecosystem**
    - Shift from top-down interventions to community-owned, data-empowered learning ecosystems.

9. Conclusions:

Access to quality education remains a universal right acknowledged by global declarations such as the UN Convention on the Rights of the Child and the UN Sustainable Development Goal 4 (SDG-4), which emphasize inclusive, equitable, and lifelong learning opportunities for all children. Yet, despite international commitments, many countries continue to struggle with deep disparities in schooling especially in remote, rural, indigenous, conflict-affected, and economically marginalized regions. Global learning assessments and household-level surveys across low- and middle-

income countries constantly show that while enrolment rates have improved over the past decade, substantial gaps remain in foundational literacy, numeracy, and grade-level competencies. These gaps are predominantly severe in geographically isolated communities, where multidimensional challenges are limited infrastructure, teacher shortages, socio-economic barriers, and weak digital connectivity multipart the inequities in access to quality learning. This white paper proposes a Geospatial-AI (GeoAI)-enabled precision learning framework that can play a transformative role in enhancing access, quality, and equity in school education particularly in underserved and hard-to-reach areas. Deepspatial's GeoAI technology integrates spatial data, AI algorithms, and real-time analytics to support precision learning by identifying and addressing region-specific educational disparities. By mapping the school infrastructure, learning outcome variations, resource availability, and contextual socio-economic factors, the GeoAI-driven approach enables governments, development agencies, and education stakeholders to identify the inequities with precision. This framework marks a shift from traditional input-driven education planning towards an outcome-oriented, evidence-based decision-making paradigm. It empowers teachers, administrators, policymakers, parents, and learners to collaboratively prioritize learning outcomes while ensuring that interventions reach the children and communities most in need. By aligning with global education priorities including SDG-4, UNESCO's Education 2030 agenda, and international best practices for data-driven governance this model offers a scalable pathway for achieving equity, inclusion, and excellence in schooling systems worldwide. The GeoAI-enabled precision learning approach has the potential to transform educational access and quality in remote, underserved, and hard-to-reach regions, ensuring that no learner is left behind regardless of geography or socio-economic background.

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ABOUT THE CONTRIBUTORS

Dr. Rahul Kushwah is CEO at Deepspatial Inc., Canada. With over a decade of experience in the medical sciences, highly skilled innovator, entrepreneur and team leader. His experience includes positions as Federal Government Scientist, Research Officer within the HHT branch of NRC of Canada along with Professorship at the University of Ottawa. He also holds a PhD from University of Toronto.

Dr. Bushra Zaman is Chief AI Officer at Deepspatial AI, and Adjunct Professor, CEE, College of Engineering, Utah State University, USA. She has over 17 years of industry, research and teaching experience with specialties in Civil and Environmental engineering, water resources engineering, Geographical Information Systems (GIS), ERDAS Imagine, Remote sensing techniques and image processing, AI/ML Modeling, Predictive analytics, evolutionary computation etc.

Dr. Chhotu Ram is working as Associate Director in Research and Development at Deepspatial AI, India. He has around 14 years of industry, research and teaching experience with specialties in article writing, research guidance, and books in multidisciplinary areas.

Er. Aisha Sharma is Associate Director in Data Science and Engineering in Deepspatial AI, India with 10 years of experience in teaching, research and technical projects. She has worked as a hydrologist in IISc, Bangalore and thereafter as a Data Scientist in multidisciplinary areas, with expertise in GIS tools and ML modeling.

Enquiries and contact:

rahul@deepspatial.ai (Dr.Rahul Kushwah, CEO)

dev@deepspatial.ai (Mr. Debojyoti Purkayastha, Chief Business Officer)

CONTRIBUTING AUTHORS:

Dr. Rahul Kushwah

Chief Executive Officer, Deepspatial Inc., Canada

Dr. Bushra Zaman

Chief AI Officer, Deepspatial Inc., Canada

Dr. Chhotu Ram

Associate Director, Research and Development, Deepspatial Asia Pvt. Ltd. India

Er. Aisha Sharma

Associate Director, Data Science and Engineering, Deepspatial Asia Pvt. Ltd. India