

Review of: "Empowering Women in Mathematics: Shaping a New STEM Paradigm for 2047"

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This article effectively highlights the critical importance of empowering women in mathematics as a key driver of India's technological and social progress towards 2047. However, to strengthen the argument further, specific interventions should be discussed in greater detail. For instance, India could implement targeted scholarship programmes for women pursuing university and postgraduate studies in mathematics, with a focus on emerging fields like artificial intelligence and quantum computing. Such programmes could incorporate mentorship networks to support women throughout their academic journeys, helping them overcome systemic barriers.

Additionally, the article could benefit from addressing the cultural and societal challenges that Indian women face in the field of mathematics. A deeper analysis of family and community pressures, coupled with government-led initiatives to raise awareness of the importance of supporting girls in STEM, would provide a more nuanced understanding of the obstacles women encounter. Introducing curriculum reforms that highlight women's contributions to mathematics, starting at the primary school level, could also help dismantle gender stereotypes early on and foster a more inclusive learning environment.

Furthermore, practical workplace policies to retain women in STEM should be explored. The article could suggest creating support networks for women in the mathematical profession, allowing them to share experiences, receive mentorship, and collaborate on projects. Offering flexible work arrangements, alongside institutional measures to balance family and professional life, would ensure women can excel in high-level mathematical roles without facing additional burdens.

Lastly, the inclusion of mechanisms for evaluating the impact of these interventions would be vital. The article could propose methods to track the success of educational and workplace initiatives aimed at empowering women in STEM. By incorporating these suggestions, the piece would not only present a clearer roadmap for achieving gender equality in mathematics but also position India as a leader in innovation and inclusivity within the global STEM community.

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