

# ***Application of AI-Based Learning Platform for Children with ASD, Developmental Delay, and Intellectual Disability: A Prospective Cohort Study***

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**Aim of the Study:** To evaluate the efficacy of the CognitiveBotics AI-based therapeutic learning platform in improving developmental, communicative, and motor skills in children with Autism Spectrum Disorder (ASD), Developmental Delay (DD), and Intellectual Disability (ID), when used alongside standard therapy.

**Place of the Study:** National Institute for the Empowerment of Persons with Intellectual Disabilities (NIEPID), Secunderabad, Telangana.

**Study Results:** The prospective cohort study was conducted over a 12-week period with 60 participants, found statistically significant improvements were observed in the intervention group compared to the control group:

- **Developmental Age** improved by **18.93%** and **Developmental Quotient** by **11.23%**
- **Social Age** grew by **12.55%** and **Social Quotient** by **6.39%**
- **Independent task performance** improved by **59.57%**
- **Prompted behaviour** decreased by **21.9%**

**Conclusion:** The study validates the CognitiveBotics platform as an effective adjunct to conventional therapy, with measurable improvements in developmental and social domains. It highlights the potential of AI-driven tools in delivering scalable, cost-effective interventions.

We commend the research team and participating families for their commitment to the study.

Signed,



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