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SAP, CleaVision use machine learning to reduce preventable blindness risk in premature babies

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The programme is being piloted at Narayana Nethralaya Eye Institute in Bengaluru



SAP and CleaVision have announced an innovative new programme aimed at reducing the risk of preventable blindness as a result of Retinopathy of Prematurity (ROP) in pre-term babies.

Using the power of machine learning and data analytics, the CleaVision solution helps time-pressed doctors to arrive at a more accurate diagnosis while focusing on what's most important – treating at risk babies.

Developed in India, the programme is being piloted at Narayana Nethralaya Eye Institute in Bengaluru. It's estimated that the screening programme can be scaled up to further outreach and low-resource settings, minimizing time to diagnosis and maximizing the potential for treatment.

The CleaVision solution integrates image data processing with SAP Business Technology Platform, SAP AI Platform, and SAP Analytics Cloud to automate the identification of retina and blood vessel features and to make a recommendation on plus disease – a severe manifestation of ROP in premature babies. The screening data is then served to hospitals and can be reviewed by qualified medical professionals in the KIDROP (Karnataka Internet Assisted Diagnosis of ROP) telemedicine network.