

Contact

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Top Skills

Python (Programming Language)

Algorithms

Artificial Intelligence (AI)

Certifications

OpenCV Spatial AI Competition
2022 Winners

Soham Mulye

GSoC '23 @INCF | VJTI '25 CS

Mumbai, Maharashtra, India

Experience

Google Summer of Code

Open Source Developer

May 2023 - November 2023 (7 months)

Developed an innovative project addressing limitations in conventional infant preferential looking tests. Our solution comprised a comprehensive application suite, ready for deployment, that adeptly tackled challenges by seamlessly integrating state-of-the-art hardware and deep learning-based infant eye trackers. These advancements were incorporated into a user-friendly graphical interface, simplifying the testing process for researchers and clinicians.

The preferential looking test, crucial for evaluating infants' visual preferences, relies on presenting stimuli and observing attention patterns. However, interpreting infant responses is hindered by challenges such as inconsistent behaviors influenced by factors like fatigue or mood, alongside limited motor control. Our project sought to overcome these hurdles by incorporating advanced hardware and deep learning, aiming to improve the precision and reliability of infant visual assessments. The resulting application not only alleviated challenges associated with traditional tests but also offered a robust platform for researchers and clinicians to gain valuable insights into infant visual development. Representing a significant advancement, this project provides a sophisticated tool for a more nuanced understanding and evaluation of infants' visual abilities.

Education

Veermata Jijabai Technological Institute (VJTI)

Bachelor of Technology - BTech, Computer Engineering · (2021 - 2025)