

# ATUL ALEXANDER VAIDIAN

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## Education

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| <b>College of Engineering Karunagappally, Kerala Technical University , India</b><br>Bachelor of Technology, Computer Science   CGPA: <a href="#">7.57</a> | <b>2022 - 2026</b>                       |
| <b>SN Trust Central School, India</b><br>CBSE(Class XII)   Percentage: <a href="#">73.40</a>   | <b>2020 - 2022</b><br><b>2010 - 2020</b> |
| <b>Trinity Lyceum, India</b><br>ICSE (Class X)   Percentage: <a href="#">88.80</a>   |  |

## Skills

**Languages:** Java | Python | C | JavaScript | HTML | MySQL

**Technologies & Tools :** Django| Git | GitHub | Android Studio | DSA | Machine Learning | ReactJS | NextJS | IntelliJ | Visual Studio Code | Roboflow | YOLO

## Projects

### Visual Cursor- [\(link\)](#)

- This research presents a novel implementation of an eye-controlled mouse interface utilizing advanced computer vision techniques. The system enables precise cursor control through eye movement tracking and executes mouse clicks via blink detection. Designed primarily for individuals with hand mobility impairments, this assistive technology facilitates seamless computer interaction, enhancing digital accessibility and user independence.

### Weather-app[\(link\)](#)

- This project presents a weather application designed to provide users with accurate and up-to-date weather information. The app utilizes a clean and intuitive interface to display key weather metrics, including temperature, humidity, and wind speed. Users can easily search for weather conditions in different locations, making it a valuable tool for planning daily activities.

### En Roots [\(link\)](#)

- This project develops a comprehensive digital platform dedicated to cultural heritage preservation and education. The website serves as an interactive hub where users can explore cultural artifacts, artworks, and historical sites through detailed documentation, historical context, and linguistic information. The platform integrates educational resources with practical services including guided tours and authentic cultural merchandise.

### SmartSight [\(link\)](#)

- This research introduces an innovative computer vision system designed to enhance environmental awareness for visually impaired individuals. The solution employs advanced object detection algorithms

coupled with depth sensing technology to identify objects and their spatial relationships. The system provides real-time audio feedback detailing object identity, distance, and relative positioning, enabling users to navigate their surroundings more effectively and independently.

## Experience

- Tech Lead at FOSS CLUB Ceknpy, 2024-25
- Tech Lead at GDSC Ceknpy, 2024-25
- Outreach Coordinator at Mulearn.KNP, 2024-25

## Academic and Extracurricular Achievements

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- First Prize - Hackathon, AITHON 2024
- Competed in Rural Agritech Hackathon 2024
- Competed in Define Hackathon 2023
- Competed in Nasa Space Apps Hackathon 2023