

# Gautham Ashok

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GitHub: [Gautham-Ashok](#)

## Projects

### Anomaly Detection in CCTV Footage:

- Developed a real-time anomaly detection model for CCTV footage using deep learning, implementing a video frame extraction pipeline and training an ML model to identify theft, violence, and accidents with optimized detection speed and accuracy.

### AI-Powered Crop Disease Detection:

- Developed a machine learning-based disease detection model, integrating advanced architectures like ResNet50, DenseNet, and eXception with an Arduino-controlled RC car for precision agriculture, leveraging ML and IoT technologies..

### Fruit Ninja Enhancement:

- Upgraded the classic Fruit Ninja game by integrating real-time hand-tracking with a camera, implementing advanced motion-sensing algorithms for intuitive hand-gesture gameplay. Enhanced the gaming experience with cutting-edge gesture recognition.

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## Technical Skills:

- Programming Languages: Python, Java, C++, Kotlin, HTML, CSS
- Tools & Platforms: Excel, Canva, Unreal Engine, Unity, MATLAB Simulink
- Frameworks & Libraries: Android SDK, Arduino
- Additional Skills: Web Development, Data Structures & Algorithms (DSA), Critical Thinking

## Languages:

- English, Malayalam , Tamil , Hindi

## Certifications:

- Coursera: *Intro to AR/VR/MR/XR: Technologies, Applications & Issues*
  - MATLAB-Simulink
  - NPTEL: *Foundations of Cyber-Physical Systems*
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**Education:**

**VIT Bhopal University** – Bhopal, Madhya Pradesh

*Bachelor of Technology in Computer Science and Engineering with a specialization in Gaming Technology*

*Expected Graduation: May 2026*

- CGPA: 8.48

**Vivekodayam Boys Higher Secondary School** – Thrissur, Kerala

*12th Standard (STATE) – June 2021*

- Cumulative GPA: 9.0/10

**Paramekkavu Vidya Mandir** – Thrissur, Kerala

*10th Standard (CBSE) – June 2019*

- Cumulative GPA: 9.3/10
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