

# Muhammed Ashkar

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## Professional Summary

Enthusiastic Mechanical Engineering graduate with a strong foundation in full-stack web development, machine learning, and computer vision. Experienced in delivering real-world solutions through hands-on projects. Passionate about combining software and hardware for innovative outcomes in tech-driven environments.

## Education

### B.Tech - Mechanical Engineering

Mar Athanasius College of Engineering, Kerala, India  
2021 – 2025

## Technical Skills

- **Languages:** Python, JavaScript, HTML, CSS
- **Frameworks/Libraries:** Node, Express.js, React, TensorFlow, OpenCV
- **Tools/Platforms:** MongoDB, AutoCAD, Creo Parametric
- **Domains:** Machine Learning, Computer Vision, Web Scraping, Image Processing, Full-Stack Development, Real-Time Monitoring

## Projects

### ML-Based Waste Segregation System

*Flask, YOLOv8, ESP32, Servo Motors (C)*

Built an AI-powered waste classification system using YOLOv8, Flask backend, and ESP32-controlled servos for automated physical sorting.

### Full-Stack Cake Selling Website

*MERN Stack (MongoDB, Express.js, React, Node.js)*

Developed a responsive e-commerce website with user authentication, payment integration, and admin dashboard features.

### GitHub MERN Projects for BCA Students

*Web Development*

Contributed to over 23 GitHub projects with a focus on full-stack features including CRUD operations, authentication, and clean UI/UX.

## Certifications

- 100 Days of Code – Python Bootcamp (Angela Yu, Udemy)
- Python for Data Science – NPTEL
- The Complete Web Development Bootcamp – Angela Yu, Udemy

## Achievements

- Participated in the global NASA Space Apps Challenge, collaborating on space technology challenges.
- Secured 1st place in a college-level Git competition, demonstrating strong version control and collaboration skills.