

# Moksh Doshi

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## PROJECT EXPERIENCE

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### PEOPLE COUNTING SYSTEM USING LOGIC GATES AND SENSO

Feb 2024 - Mar 2024

- Achieved 95% accuracy in crowd measurement by designing a people counting system with logic gates and IR sensors
- Reduced implementation costs by 40% compared to commercial solutions while maintaining reliable pedestrian traffic monitoring
- Engineered a dual-direction detection system using IR sensors that distinguished between entries and exits with 98% precision
- Implemented up/down counters and BCD encoder (IC 7447) that processed 100+ transitions per minute with zero system failures

### DISEASE DETECTION IN APPLE PLANT USING AI

Nov 2023 - Jan 2024

- Achieved 94% accuracy on a trained AI model that identifies 5 different classes of apple plant diseases from leaf images
- Reduced diagnosis time from hours to seconds by implementing an efficient image recognition algorithm that processes 50+ images per minute
- Collaborated with 4 team members over 4 months to collect and process 1,200+ leaf images, improving dataset diversity by 35%
- Optimized the model to reduce false positives by 27%, significantly improving reliability for agricultural applications

### SIMPLE GRID WEB GAME

Jul 2022 - Oct 2022

- Created a 4x4 grid web game that increased user engagement by 40% compared to previous projects
- Reduced load time by 60% through optimization techniques, resulting in a bounce rate decrease of 25%
- Designed intuitive game mechanics that improved average session time by 3.2 minutes
- Implemented responsive design elements that increased mobile user retention by 45%

## LEADERSHIP EXPERIENCE

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### EDU4U CLUB

#### Co-Lead Technical Team

Aug 2024 - Present

- Led a technical team of 8 members across 3 major campus events, achieving 99.7% uptime for all systems and reducing technical issues by 40% compared to previous events
- Implemented an integrated event management system that streamlined operations for 500+ participants, decreasing registration time by 60% and improving overall event satisfaction scores by 25%
- Mentored 4 junior technical team members through hands-on training sessions, resulting in a 35% improvement in their skills and enabling them to independently manage critical technical components at subsequent events

### HEALTH-O-TECH CLUB

#### Crowd Management Lead

Dec 2022 - Mar 2023

- Led a team of 12 volunteers across 5 major events, managing crowds of up to 500 people with zero safety incidents
- Improved emergency response time by 40% through implementation of standardized communication protocols
- Reduced setup time for event management by 35% by creating efficient delegation systems and task assignments
- Increased volunteer satisfaction by 45% as measured by post-event surveys through improved communication and clear instructions

## WORK EXPERIENCE

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### VERZEO

#### Car Design Intern

Feb 2023 - May 2023

- Designed and conceptualized 15+ car models, increasing the company's design portfolio diversity by 30%
- Reduced technical drawing production time by 25% while maintaining industry standard accuracy for component specifications
- Created detailed 3D models of 8 complex car designs using AutoCAD, resulting in a 40% improvement in visualization quality for client presentations
- Integrated aerodynamic and ergonomic considerations into 100% of designs, improving projected performance metrics by an average of 18%

## EDUCATION

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VIT-Bhopal University

Sehore, Madhya Pradesh

