

# Pradeep Argal

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## EDUCATION

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- **10th Standard:** Completed from Shri Kasera Bazar Vidya Niketan in 2020.
- **12th Standard:** Completed from Shri Kasera Bazar Vidya Niketan in 2022.

## WORK

### Project Intern – IIT Mandi (Mandi, Himachal Pradesh)

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Duration: 14 August 2024

Developed 3D and 2D environment maps using ROS, RTAB-Map, and LiDAR for autonomous wheelchair navigation.

Implemented hand gesture control using Gaussian Mixture Models (GMM) and MediaPipe.

Contributed to the full-scale prototype development of the autonomous wheelchair.

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### Student Intern (Virtual) – Google Developer & AICTE

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Duration: 10 weeks

Completed Google's AI/ML Training Program under AICTE.

Gained proficiency in object detection and object recognition using PyTorch, Keras, and TensorFlow.

Hands-on experience with model training, fine-tuning, and deployment.

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### Student Intern (Virtual) – Google Android Developer

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Participated in Google's Android Development Virtual Internship.

Strengthened skills in mobile application development and Android app architecture.

Worked on building scalable, responsive Android applications.

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### Web Developer Intern – Mento

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Duration: 3 months

Developed and maintained responsive websites for Mento using modern web technologies.

Focused on front-end development, ensuring a smooth user experience and interface design.

Improved skills in HTML, CSS, JavaScript, and React.js during the internship.

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## PROJECTS

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### Project: 3D Environment Mapping and Virtual Robot

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Developed 3D environment maps using RealSense and RP Lidar, and implemented SLAM algorithms (RTAB-Map, Hector SLAM) in ROS.

Created a virtual robot model for autonomous navigation and pathfinding, simulated in ROS.

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### Project: Real-time Hand Gesture Recognition using MediaPipe

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Developed real-time hand gesture recognition using MediaPipe, integrated with CNN for gesture classification.

Achieved high accuracy in gesture detection and classification, utilizing Python, OpenCV, and computer vision techniques.

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### Project: Portfolio Website for Graphic Designer

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Designed and developed a portfolio website for a graphic designer to showcase creative work, including digital illustrations, branding, and design projects.

Utilized HTML, CSS, JavaScript, and responsive design principles to create an interactive, user-friendly experience.

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## COMPETITIONS

- Smart India Hackathon (SIH) – Presented a Museum Ticket Booking System at the college level.
- ISRO IROU 2025 – Presented a drone for Mars exploration at the national level.
- Accenture Hackathon – Proposed an AI business idea in a national-level hackathon organized by Accenture.

## ADDITIONAL

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**Technical Skills:** Python , C/Cpp , AWS Console , Ros , Aurdino Ide , React js, Html, Css, Js,

**Certifications & Training:** Infosys Certified: NLP, A.I, Deep Learning, Data Science, demonstrating proficiency in Artificial Intelligence. AWS Certification by AICTE (All India Council for Technical Education) Google Android Developer Certification by AICTE