

Paresh Dhok

+919545150453 | paresh.dhok@mitwpu.edu.in | [linkedin.com/in/pareshdhok](https://www.linkedin.com/in/pareshdhok) | x.com/PareshDhok60695

EDUCATION

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| MIT World Peace University <i>B.Tech in Electronics and Communication Engineering with AIML</i> | PUNE, IN Aug. 2023 – May 2027 |
| Gurukul Public School & Junior College Of Science <i>Higher Secondary Certificate</i> | AMRAVATI, IN Aug. 2020 – June 2022 |
| Raisaheb Moti Sangai English School <i>Secondary School Certificate</i> | AMRAVATI, IN June. 2019 – April 2020 |

POSITION OF RESPONSIBILITY

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| Vice President and Founder <i>Student Club - prismlabs MIT-WPU</i> | February 2025 – Present PUNE, IN |
| <ul style="list-style-type: none">Led the club's expansion, Participating hackathons, technical workshops, and hands-on training for students in AI/ML, IoT, and Embedded SystemsPioneered recruitment and branding, growing the club's presence through strategic marketing campaigns, workshops, and hackathons | |
| SY Coordinator <i>Student Club - InsightAI MIT-WPU</i> | July 2024 – Present PUNE, IN |
| <ul style="list-style-type: none">Facilitate collaborations between Insight AI and other technical clubs, expanding opportunities for AI/ML enthusiastsCoordinating club activities in overall second year students | |
| Student Volunteer <i>Social Leadership Development Program - SLDP MITWPU</i> | August 2023 PUNE, IN |
| <ul style="list-style-type: none">Ensured smooth execution of events by maintaining discipline and coordination among participants.Assisted in managing crowd control, event flow, and participant engagement during leadership sessions | |

ACHIEVEMENTS

- First Prize in PBL Project Competition at MIT-WPU in First Year
- Appreciation Prize in HackMITWPU25 Hackathon (Ideathon Track)

PROJECTS

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| Home Automation System <i>Embedded C</i> | September 2023 – November 2023 |
| <ul style="list-style-type: none">Designed and developed a home automation system with mobile-controlled operations for convenience by ESP8266Implemented automatic garage gate control using a Wi-Fi-based system for seamless entry and exit | |
| MoodE <i>Python, Embedded C, Tensorflow, OpenCV</i> | February 2024 – Present |
| <ul style="list-style-type: none">Developed an AI-driven system that adapts room ambiance based on the user's mood, including music, lightingIntegrated Arduino and IoT components to control smart lights, speakers, and aroma diffusers also used intel OpenVino. | |
| JARVIS <i>Python, Embedded C, Google TTS Framework</i> | March 2024 – April 2024 |
| <ul style="list-style-type: none">Build an offline voice controlled system to operate home automation devices without needing internet.Developed an custom voice control system that allow user to modify the voice commands for each action. | |
| Scout Rover <i>Python, Embedded C, MATLAB</i> | September 2024 – November 2024 |
| <ul style="list-style-type: none">Designed a wireless control system to operate the Scout Rover using a gamepad variable speed control and directional movement for precise navigation.Integrated ultrasonic sensors, IR sensors, and MPU6050 for obstacle avoidance and motion stability with gas and temperature sensors also integrated a LiDAR sensor to scan the surroundings and generate 2D maps in MATLAB. | |
| Signal Generator <i>Python, Plotly, Flask, scikitlearn, dash</i> | January 2025 – Present |
| <ul style="list-style-type: none">Designed a signal generation system to visualize and analyze different modulation techniques in real time.Implemented AM (DSBSC, DSBFC, SSB), FM and PM Python for visualization. | |

TECHNICAL SKILLS

Languages: Python, C/C++, HTML, Embedded C, Java, Machine Level Programming

Hardware Embedded Systems: ESP32, Arduino, Raspberry Pi, STM32, 8051, Lidar, Sensors Actuators, Motor Drivers, RF Bluetooth Modules

Frameworks & Platforms: Flask, WordPress, Arduino, OpenVino, TinkerCad, MultiSim

Circuit Design Electronics:: Analog Digital Circuit Design, Signal Processing, Microcontroller

Developer Tools: Matlab, Simulink, VS Code, PyCharm, Proteus

Libraries & SDK's: NumPy, pandas, Matplotlib, OpenCV, scikit-learn, TensorFlow, Keras, ADB shell, PYQT5, Plotly, Dash, Tenserflow, ADB