

Pritesh Rodge

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EDUCATION

Indian Institute of Information Technology, Design and Manufacturing <i>Bachelors of Technology in Computer Science and Engineering</i>	Jabalpur, M.P Aug. 2023 - present
Spring Dales Jr College of Arts and Science <i>Higher Secondary Education</i>	Aurangabad, Maharashtra Aug. 2021 - May. 2023

EXPERIENCE

Linux Kernel Mentorship (LFX) – Mentor: Shuah Khan, Linux Foundation <i>Linux kernel Bug Fixing Summer Mentorship 2025</i>	Remote Jun. 2025 - present
<ul style="list-style-type: none">Contributing to the Linux kernel selftests framework by building, running, and validating test outputs.Analyzing test behaviors and logs to understand kernel internals and improve test coverage.Learning and practicing kernel patch development: using Git, git format-patch, and git send-email workflows.Exploring Linux kernel architecture and subsystems with an interest in debugging, test infrastructure, and sound systems.	

TECHNICAL SKILLS

Languages: C/C++, Java, Python, Go, SQL, HTML/CSS
Developer Tools: Git, Docker, Jupyter, Vim, VSCode, Eclipse
Coursework: Data Structures and Algorithms, DBMS, OOPS, Computer Architecture and Organization, Computer Networks, Operating Systems, Design and Analysis of Algorithms, Internet of Things

PROJECTS

Prithvi 100M	Aug 2024 – Present
<ul style="list-style-type: none">Evaluated the Prithvi-EO (100M) geotemporal model's accuracy on the IBM-NASA multi-temporal crop classification dataset using PyTorch for inference and scikit-learn for metricsCurated a region-specific geospatial dataset on Indian agricultural patterns using Pandas for tabular preprocessing and OpenCV for satellite image augmentationFine-tuned Prithvi-EO with domain-specific crop data leveraging PyTorch Lightning, NumPy, and custom data loaders for efficient trainingVisualized classification trends and model predictions over time using Matplotlib to extract insights for agricultural planning	
Robocon 2025: Wireless Control System for Basketball Robots	Dec 2024 – present
<ul style="list-style-type: none">Designed and implemented the wireless communication system for two semi-autonomous basketball-playing robotsEvaluated Bluetooth, Wi-Fi, and Zigbee protocols for real-time control; selected Bluetooth for optimal latency and reliabilityInterfaced a PS5 controller with ESP32 to transmit control signals over Bluetooth to an Arduino Mega, using just 6 digital pins to efficiently send signals to secondary microcontrollers with bit manipulationDeveloped a modular communication pipeline for controlling dribbling, shooting, and locomotion	

ACHIEVEMENTS

e-Yantra Robotics Competition (eYRC 2024-25) <i>IIT Bombay</i>	Aug 2024 – Mar 2025
<ul style="list-style-type: none">Ranked in the top 25 out of 700+ teams for the Warehouse Drone theme, developing autonomous drone navigation and package localization with skills in ROS 2, PID Control, Image Processing, Path Planning, and Python/C++.	

VOLUNTEERING / SKILLS

Electronics and Robotics Society - IIITDMJ	Mar 2024 – present
<ul style="list-style-type: none">Actively contributed to various robotics and electronics projects, including participation in Robocon 2025 and other related competitions.Mentored 200+ school students, delivering robotics workshop on fundamentals and hands-on demonstrations.	