

Prajal Jain

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EDUCATION

Vishwakarma University, Pune, India	Jul 2027
Bachelor's in Technology, Artificial Intelligence	
Indo German Tool Room, Aurangabad, India	Jul 2024
Diploma in Mechatronics	GPA:7.9

SKILLS

Mechatronics & Robotics	Raspberry Pi, Robotics Systems, Embedded Systems, Arduino, ROS, Sensor Integration (IMU, GPS), PLC, SCADA, Path Planning, SLAM
AI & Machine Learning	Neural Networks, Deep Learning, TensorFlow, OpenCV, Scikit-learn, Model Evaluation, Computer Vision, YOLO, Reinforcement Learning
Programming Languages	Python, C++, MATLAB, SQL, Bash/Shell Scripting, Java
Design & Simulation Tools	SolidWorks, MATLAB/Simulink, TIA Portal V13, Fusion 360,
Development Tools & Platforms	IntelliJ IDEA, Visual Studio Code, Google Colab, GitHub, Arduino IDE, Raspberry Pi OS/Linux
Databases & Data Pipelines	MySQL, PostgreSQL, MongoDB, Apache Airflow, Apache Kafka, ETL/ELT Pipelines, Data Cleaning Processing
Soft Skills	Analytical Thinking, Problem Solving, Team Collaboration, Communication, Adaptability, Project Ownership, Time Management, Quick Learning
Certifications	Neural Networks and Deep Learning, Improving Deep Neural Networks, AI For Everyone, Structuring Machine Learning Projects, SQL for Data Science, Linux & Shell Scripting

ACADEMIC PROJECTS

Artificial Intelligence Video Classifier Recycle Bin	Jan 2024 - May 2024
<ul style="list-style-type: none">Developed an AI-based video classification system to sort biomedical waste from live footageUsed image processing and machine learning techniques to classify waste into the correct categoriesIntegrated the classifier into a smart disposal unit to improve sorting automationAchieved 94% accuracy, reducing false discards and improving safetyContributed to safer biomedical waste management through intelligent automation	
Arduino-Powered Drone	Jul 2022 - Nov 2022
<ul style="list-style-type: none">Designed and assembled a custom quadcopter using Arduino and IMU sensorsProgrammed motor control, flight stabilization, and remote navigation using C/C++Implemented GPS-based return-to-origin feature for low battery failsafeSupported both manual and semi-autonomous flight modes with safety featuresEnhanced reliability with real-time sensor integration and emergency override logic	
AI Cyber Coach	Jan 2025 - May 2025
<ul style="list-style-type: none">Built an AI-powered learning assistant with a chatbot for solving student queriesDeveloped real-time interaction using Python, SQL, and NoSQL databasesManaged users, admins, and content through dynamic database architectureDelivered personalized learning experiences and tracked performance metricsEnabled mentor dashboards for engagement analytics and content flow control	