

PRATHA NAGPAL

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Education

KJ Somaiya College of Engineering	Mumbai, India
Degree: B.Tech Field of Study: Electronics and Computer Engineering	2024 - 2028
RN Podar School	
Degree: Higher Secondary Education (12th Grade) Field of Study: PCM (Physics, Chemistry, Mathematics) and Computer Science Percentage: 88.6%	2024
Podar Internation School	
Degree: Senior Secondary Education (10th Grade) Percentage: 95.8%	2022

Skills

Arduino: • Sensor Integration • Analog/Digital Signal Processing • Prototyping • Microcontroller Programming

Python: • API Integration • Matplotlib • Data Structures • Debugging • Tkinter • PyCharm

Web Development: • HTML/CSS • JavaScript

Projects and Workshops

Gesture Controlled Robot	Mumbai, India
At Gesture Robotics Workshop, held at Techfest, Organized by IIT Bombay	
• Focused on robotics fundamentals, microcontroller programming, sensor integration, and hands-on projects including gesture-controlled robots.	
Weather Forecasting System	Mumbai, India
Built as a school project	
• Developed a user-friendly weather application using Python, Tkinter for the GUI, and Matplotlib for temperature comparison graphs.	
• Integrated OpenCage and Tomorrow.io APIs to provide current and forecasted weather data, including detailed temperature, precipitation, and humidity.	
• Created a feature that presents the current weather along with a 5-day forecast, featuring comparative graphs for enhanced visual analysis.	
Young Entrepreneurs' Boot Camp	Mumbai, India
Organized by IIT Bombay, Sponsered by BITS Pilani	
• <i>Awarded 1st Place</i> – Recognized for presenting an innovative drone-based solution to enhance precision agriculture and optimize resource management for farmers.	

Interests and Hobbies

Kathak Dance	Public Speaking	Formula 1
Trained classical dancer with a 5-year Bachelors degree.	Effective presenter with strong communication skills.	Enthusiastic about the sport and its technological advancements.

Languages

English Proficient ●●●●●

Hindi Native ●●●●●