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

- *Awarded 1st Place* – Recognized for presenting an innovative drone-based solution to enhance precision agriculture and optimize resource management for farmers.

Interests and Hobbies

Kathak Dance
Trained classical dancer with a 5-year Bachelors degree.

Public Speaking
Effective presenter with strong communication skills.

Science Enthusiast
Passionate about exploring scientific concepts and advancements

Languages

English   Proficient   ●●●●○

Hindi   Native   ●●●●●