Himanshu Galav

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EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
Bachelor of Technology	Indian Institute of Technology, Ropar	8.05/10	2021-2025
Senior Secondary	Rajasthan Board of Secondary Education	94/100%	2020
Secondary	Rajasthan Board of Secondary Education	84.84/100%	2018

PROJECTS

Image Enhancer　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　*IIT, Ropar*

Computing　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　*Apr 2022 - July 2022*

- As the title suggests the project takes blur images as input and then sharpens the given input image using functions from the libraries like open-cv and NumPy to obtain a more precise and sharper image.
- The main idea behind the project is to obtain more clear images from their blurred version using python.
- Perks of this project includes Crime Investigation- obtain clear images from CCTV, or in the field of medicine to obtain clearer X-Ray images/images of internal organs, or in the field of astrophotography, etc.
- **Technical Skills:** Python, Matplotlib, OpenCV.
- **Soft Skills:** Time Management, Teamwork, Presentation skills.

Smart Wheelchair　　　　　　　　　　　　　　　　　　　　　　　　　　　　*IIT, Ropar*

Museum Lab Technology　　　　　　　　　　　　　　　　　　　　　　　　　*Apr 2022 - July 2022*

- As the title suggests, the project is a WIRELESSLY CONTROLLED SMART WHEELCHAIR.
- Idea behind this is to help physically disabled beings.
- This smart wheelchair is capable of carrying a load of up to 150 kg and moving in accordance with the command given by the person using the app through the mobile phone.
- Users can simulate the wheelchair towards them and then can sit on that wheelchair by themselves without the need of another person, with this feature they can feel more independent and self-sufficient.
- **Technical Skills:** Electronics, Robotics, Arduino.
- **Soft Skills:** Presentation skills, Leadership, Teamwork.

Air Purifier　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　*IIT, Ropar*

Self Project　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　*Aug 2022 - Nov 2022*

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- This smart wheelchair is capable of carrying a load of up to 150 kg and moving in accordance with the command given by the person using the app through the mobile phone.
- Users can simulate the wheelchair towards them and then can sit on that wheelchair by themselves without the need of another person, with this feature they can feel more independent and self-sufficient.
- **Technical Skills:** Electronics, Robotics, Arduino.
- **Soft Skills:** Presentation skills, Leadership, Teamwork.

SKILLS

Programming　　Python, C/C++, HTML/CSS, JavaScript, SVG, Bootstrap
Robotic Skills　　Arduino, STM32

KEY COURSES TAKEN

- **CSE :** Introduction to Computing and Data Structure

- **Core :** Digital Circuit, Basic Electronics

- **Maths :** Linear Algebra, Calculus, Differential Equation

ACHIEVEMENTS

- **1st Position** Inter IIT Tech Meet 10.0

- Cleared JEE Advanced

- Cleared JEE Mains

POSITION OF RESPONSIBILITY

- Workshop Facilitator at EE-RSF IIT Ropar
- ISMP Mentor at Student Mentorship Program
- Student Representative, CDPC

References available upon request.