



Himanshu Galav

Bachelor of Technology
in Electrical Engineering
Indian Institute Of Technology, Ropar

Portfolio

+91-6367630795

GitHub | LinkedIn

h.galav1402@gmail.com

EDUCATION

| Degree | Institute/Board | CGPA/Percentage | Year |
|------------------------|--|---------------------|-----------|
| Bachelor of Technology | Indian Institute of Technology, Ropar | 7.97 (Till 4th Sem) | 2021-2025 |
| Senior Secondary | Rajasthan Board of Secondary Education | 94% | 2020 |
| Secondary | Rajasthan Board of Secondary Education | 83.83% | 2018 |

PROJECTS

- Wiki Graph** Mar 2023 - May 2023
Python, Graphs **GitHub**
 - Parses the Wikipedia's article dump to two text files for saving reruns and goes through all the title, redirect title and children links to form a graph of all the pages
 - Stores all the lists for name, id and adjacency list in pickle files and does random walk over the graph for user-given steps
 - Prints the top K pages and all the links present in a page
- Face Recognition Attendance** Feb 2023 - Apr 2023
Python, OpenCV, firebase, numpy, pickle **GitHub**
 - A face recognition-based attendance system using openCV library of python with a interface to show the real-time update of the attendance from the firebase real-time database
 - Stores the encodings of all the faces in a pickle file for a fast and smooth experience
- Phone Book** Jan 2023 - Mar 2023
C++, DSA, Javascript, HTML, CSS **GitHub**
 - A phone book that allows you to store and search contacts with very less space and time complexity, implemented using Trie data structure and developed a webpage using HTML/CSS for user's
- Weather App** Sept 2022 - Nov 2022
Python, pyOWM, Matplotlib, Streamlit **GitHub**
 - A webapp that shows you the 6 days detailed weather of your city in text format and in line bar graph to get a better view
 - It allows you to change the unit of temperature as well and to see any impending changes in the temperature or alerts
 - Uses python open weather map API to fetch the forecast, pyplot to plot the graphs and streamlit to make and host our user friendly webapp
- Minor Project**
 - Image Enhancement:** Enhances an image by deblurring and sharpening it and optimizing its brightness and contrast
 - Bird Drone:** A demonstrative working model to show how bird drones can be the future of drones in the field of security
 - Smart Wheelchair:** A smartphone-controlled wheelchair to help the disables

TECHNICAL SKILLS

- Programming Languages:** C/C++, Python
- Web Development:** HTML, CSS, Javascript, ReactJs, SVG, mySQL, Bootstrap
- Tools & Platform:** Amazon AWS, Streamlit, Github, Firebase, Twilio, VS Code, Pycharm, STM32Cube, Xampp, Canva
- Libraries & Other:** Arduino, OpenCV, Numpy, Matplotlib, Pickle

KEY COURSES TAKEN

- CSE & Maths:** Introduction to Computer Programming & Data Structure, Probability and Stochastic Processes, Differential Equation, Linear Algebra, Advanced Calculus
- Electrical & Electronics:** Digital Systems, Basic Electronics, Control Systems, Signals & Systems, Electromechanics, Network theory
- Others:** Economics, Professional English Communication

POSITIONS OF RESPONSIBILITY

- Student Representative,** Career Development and Placement Cell, IIT Ropar Apr. 2022 - Present
- Workshop Facilitator,** Research Scholar Forum, Electrical Department, IIT Ropar Oct. 2022 - Present
- Website Developer,** Research Scholar Forum Day, EE-RSF, IIT Ropar Feb. 2023 - Apr. 2023
- Student Mentor,** ISMP, IIT Ropar June 2022 - Apr. 2023
- ESportZ Team Member,** Zeitgeist, IIT Ropar Jan. 2023 - Apr. 2023

MISCELLANEOUS

- Inter IIT Tech Meet 10.0,** First position in Engineering Conclave 2022
- Ranked in the Top 1%,** among 1.1 million students in the JEE exam 2021