

HARKIRAT SINGH

(<https://harkirat.site>)

(577, L-2 Prem Street, M.K. Road, Khanna, Punjab, 141401)

PERSONAL DETAILS

Gender: Male

DOB: 14th of August 2003

Mobile: +91-9988077635

E-mail: 14singh.harkirat@gmail.com

LinkedIn: [14-singh-harkirat](https://www.linkedin.com/in/14-singh-harkirat)

GitHub: <https://github.com/h-s14>

EDUCATION

Thapar Institute of Engineering and Technology

Bachelor of Computer Science and Engineering (*Pursuing*)

Expected Year of Graduation – 2025

(Patiala, Punjab)

S.C.C.L.H. Jain Public School

Class - XII

Year of Passing - 2021

(Khanna, Punjab)

Om Prakash Bansal Modern School

Class - X

Year of Passing – 2019

(Gobindgarh, Punjab)

PROJECTS

Block Chain Crypto Transfer Application | HTML, CSS, JS, React, Solidity

(<https://coin.harkirat.site>)

- **Developed Responsive Front – End:** Designed and Implemented a responsive and user-friendly interface for transferring crypto currency which seamlessly integrates with Meta-Mask wallet.
- **Implemented Smart Contract:** Created robust functionality to transfer Ethereum using blockchain securely using smart – contract.
- **Test Network Deployment:** Deployed the working Application with Smart Contract on Sepolia ETH test network.

Thermal Infrared Object Detection for Aerial Crafts | Python, Flask, OpenCV, YOLOv8

([GitHub Link](#))

- **Data Handling:** Managed file uploads and HTML rendering using Flask
- **Data Visualization:** Integrated Flask routes for displaying processed images and video streams with detection results.
- **Model Inference:** Integrated Flask routes for displaying processed images and video streams with detection results.

Hospital Management System | MongoDB, ExpressJS, React, NodeJS

(<https://healthflow.harkirat.site>)

- **Security and Data Management:** Implemented user authentication and role-based access to ensure data security and privacy.
- **User Interface and Experience:** Created a responsive and Dynamic user interface with React, enhancing the overall user experience and operation efficiency.
- **API and Integration:** Ensured seamless communication between the front-end and back-end through well designed APIs, supporting a cohesive and efficient architecture.

Breast Cancer Detection | Python, Pandas

([GitHub Link](#))

- **Dataset:** Worked with the Breast Cancer Wisconsin (Diagnostic) dataset for tumor classification.
- **Data Preprocessing:** Cleaned, normalized data, and selected relevant features using Pandas.
- **Algorithms Applied:** Implemented SVM, Kernel SVM, Random Forest, and Logistic Regression models.
- **Model Evaluation:** Evaluated models using Accuracy, Precision, Recall, and F1-Score for comparison.

TECHNICAL SKILLS

Languages: C, C++, Java, HTML, CSS, JavaScript, SQL, Python, Solidity, Rust

Developer Tools: VS Code, Android Studio, Google Colaboratory

Technology and Frameworks: GitHub, AWS, React, ExpressJS, NodeJS

Interpersonal Skills: Team collaboration, Leadership, Precision, Analytical Thinking