



# Shubham Jha

M.Tech

in CSE

Indian Institute Of Technology, Ropar

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GitHub

Linkedin

## EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
M.Tech	Indian Institute of Technology, Ropar	6.77 (Till 2nd Sem)	2024-2026
B.Tech	KIIT Deemed to be University	9.08	2024
Senior Secondary	National Examination Board,Nepal	3.23/4	2018
Secondary	National Examination Board,Nepal	3.75/4	2016

## INTERNSHIP

- **Novartis Healthcare India** Jan 2024 - July 2024  
*Master Data Management Intern* Hyderabad
  - Worked extensively with Reltio and TIBCO EBX tools to manage, cleanse, and optimize master data, contributing to improved data governance and operational efficiency.
  - Developed and implemented Recipies ,Workflow ,data modeling strategies and business rules to streatmlne master data workflows and enhance data integrity.
  - Participated in data migration and integration projects from Tibico Ebx to Reltio providing support for data validation, enrichment, and duplication.

## RESEARCH PUBLICATION

- **An Analysis on multi-level cache eviction Policies in Multi-core Processor using Gem5 simulator** 2023  
*Research paper presented in ICMLIP(International Conference on Machine Learning and Information Processing)* Google Scholar
  - Tools & technologies used:Gem5 Simulator
  - In this research paper we researched about various cache eviction policies like LRU, MRU, FIFO and analysed its performance in the simulator.

## PROJECTS

- **Phishing Website Detection Chrome Extension** 2025  
*Developed a Chrome extension that detects whether a visited website is phishing or legitimate using ML.*
  - Tools & technologies used: Google Chrome Extension APIs, Python, Scikit-learn, Random Forest, Pandas.
  - Used a dataset with over 200,000 website URLs and features to train a Random Forest classifier.
  - Achieved over 98% accuracy in real-time phishing detection using feature-based classification.
- **Chilly Detection and Counting System in Chilly Plants** 2025  
*Used ML model like YOLO,Faster-RCNN,Detectron2 to detect and count chillies in RGB images of chilly plants.*
  - Tools & technologies used: Python, OpenCV, LabelImg, Scikit-learn, YOLOv5.
  - Captured and labeled 92 high-resolution RGB images and generated over 2700 images using 2x2, 3x3, and 4x4 grid slicing.
  - Use ML object detection model like YOLO,Faster-RCNN,Detectron2 to identify and count chillies per plant image accurately.
- **Tree Visualization** 2024  
*Created a website for Tree Visualiztion Techniques* Github
  - Tools & technologies used:HTML,CSS,Javascript
  - Traversal technique like inorder, preorder, postorder and level-order for trees like AVL tree, Binary tree which also visualize their deletion and insertion.
- **Instagram Clone App** 2023  
*Simple Ios/Android based App made to get knowledge of Flutter* Github
  - Tools & technologies used: Flutter, Dart, Firebase, VS Code
  - This App can sign up new user,sign in old user,upload post,delete it,like,comment in the post in real time and every data is stored in the firebase as a database

## TECHNICAL SKILLS

- **Programming Languages:** C/C++, Python, JavaScript, Java, HTML, Dart
- **Developer Tools:** Vs Code, Android Studio, JupyTer, Reltio, Tibco-Ebx,
- **Frameworks:** Flutter, TensorFlow, Panda
- **Databases:** Firebase, SQL
- **Soft Skills:** Communication Skills, Team Work
- **Areas of Interest:** Machine Learning, High Performance Computing, Cache optimization, Mobile App Development, Web Development

## KEY COURSES TAKEN

- **CSE:** OOPs, DSA, Computer Architecture, OS, DBMS, Machine Learning, HPC, Artificial Intelligence, Compiler Design

## AWARDS AND SCHOLARSHIPS

- **Mahatma Gandhi Scholarship**, Provided by Indian Embassy of Nepal 2016-2018
- **Study In India Scholarship**, Provided by Edcil,Ministry of Education 2020-2024