Ritik Sharma

## [Linkedin:](http://www.linkedin.com/in/sharmaritik0998) www.linkedin.com/in/sharmaritik0998 Email: sharmaritik0998@gmail.com

[Github: https://github.com/](Github:%20%20https://github.com/)sharmaritik0998 Mobile: +91-926411360

# Skills

* **Languages**: C++, Python, R
* **Frameworks**: Scikit-learn, TensorFlow, PyTorch, Keras, Pandas, Numpy, Matplotlib,
* **Tools/Platforms**: Google Colab, Jupyter NoteBook
* **Soft Skills**: Time management, Patience, Adaptability, Multi-tasker

# Projects

#### Library Management System Using DSA

Developed a Library Management System that allows users to manage books, issue/return books, and track due dates.

**Tech**: C++, Data Structures & Algorithms, File Handling. July 2024

#### Robotic Arm Control

#### Created a Robotic Arm Control system that uses unsupervised machine learning techniques to learn about the environment and make decisions without labeled data.

#### This project focuses on real-time control and decision-making based on sensor data

**Tech**: Python, TensorFlow, K-means Clustering, Reinforcement Learning November 2024

#### Machine Translation

#### Built a machine translation model to translate text from one language to another using Natural Language Processing (NLP) techniques. This project focuses on tokenization, sequence modeling and translation accuracy improvement.

**Tech**: Python, NLTK, TensorFlow, Transformer Model, Seq2Seq, Language Processing

November 2024

# TRAINING

* **C++ Training Program** Since January 2025

### Conducted by Hitbullseye through the University

### **Covered topics**: Object-Oriented Programming (OOP), Pointers, Data Structures, Algorithms, and Advanced C++ Concepts.

*◦*

* + Hands*-*on coding practice and problem-solving.
* **Data Structure & Algorithm**

### Conducted by Board Infinity through the Self-Paced

### **Covered topics**: Arrays, Linked List, Stacks, Queues, Hash Tables, Trees, Graphs, Tries.

*◦*

### **Covered Algorithm**: Sorting Algorithms, Searching Algorithms, Recursion and Backtracking, Dynamic Programming, Greedy Algorithms, Divide and Conquer, Graph Algorithms, String Algorithms.

* + Hands*-*on coding practice and problem-solving.

# Certificates

## Python (Basics) || Hackerrank February 2023

* Data Structure and Algorithms || NeoColab August 2023 – January 2024

## C++ Programming || NeoColab August 2023 – January 2024

* Dynamic Programming Greedy Algorithms || Coursera January 2024 – February 2024
* Build AI Apps with ChatGPT, Dall-E, and GPT-4 || Coursera January 2024 – May 2024

## Social Network Analysis || NPTEL July 2024 – October 2024

## Problem Solving (Basics) ||Hackerrank November 2024

# Education

**Lovely Professional University** Punjab, India

### Bachelor of Technology - Computer Science and Engineering; **CGPA: 6.6** Since September 2022

•

**High School Udkagaon** Gopalganj, Bihar

•

### Intermediate; **Percentage: 76.2%** April 2019 – April 2021

**High School Uchkagaon** Gopalganj, Bihar

•

### Matriculation; **Percentage: 78.2%** March 2019