



# Sourav Kumar Gupta

Roll No.: 2022PGCSCA053

Master Of Computer Application

National Institute of Technology, Jamshedpur

+91-9798388838

souravguptacom@gmail.com

2022PGCSCA053@nitjsr.ac.in

github.com/souravguptacom

linkedin.com/in/sourav-kumar-gupta

## SUMMARY

Entry-level Software Developer and MCA student with hands-on experience in Python, C++, Java, and web technologies. Worked on academic projects involving deep learning, cryptography, IoT security, and web-based systems. Seeking an internship or junior software development role to apply technical skills and gain industry experience.

## EDUCATION

- National Institute of Technology, Jamshedpur** 2022-2026  
*Master of Computer Application* CGPA/Percentage: Pursuing
- Jawahar Lal Nehru College, Chakradharpur** 2016-2019  
*B.Sc IT(Information Technology)* CGPA/Percentage: 72
- Kolhan Inter College, Chaliyama Dam** 2015  
*Intermediate-Science, Jharkhand Academic Council Ranchi, Jharkhand* CGPA/Percentage: 62.40
- Prastabit High School, Sidahdih** 2012  
*Secondary-Science, Jharkhand Academic Council Ranchi, Jharkhand* CGPA/Percentage: 55.80

## INTERNSHIP

- ADARSH COMPUTER ACADEMY** 30 days  
*Networking Devices and Network Connectivity* Chakradharpur
  - Completed a short-term internship focused on networking fundamentals, including network devices, connectivity concepts, and basic troubleshooting. Gained practical understanding of computer networks and system connectivity.

## PROJECTS

- Deep Learning-based Blood Group Detection using Fingerprint** Duration: 6 months  
*Developed an AI-based system for blood group classification using fingerprint images, integrating deep learning and image processing techniques to enhance accuracy and eliminate manual testing.*
  - Tools & technologies used: Python, TensorFlow, Image Processing, Machine Learning, Feature Extraction.
  - Implemented AI-driven feature extraction and segmentation techniques for blood group classification.
  - Designed a CNN-based model to classify ABO and Rh blood groups from fingerprint patterns.
  - Optimized the classification process, reducing the time and effort required in traditional blood testing methods.
- Lightweight Cryptography in Smart Agriculture IoT Systems** Duration: 3 months  
*Designed a secure IoT framework for Smart Agriculture using lightweight cryptography to ensure data confidentiality, integrity, and authentication with minimal overhead.*
  - Tools & technologies used: Python, PyCryptodome, Lightweight Encryption Algorithms (AES, SPECK, PRESENT).
  - Implemented secure data transmission in IoT-based Smart Agriculture systems, optimizing encryption for low-power devices.
  - Developed real-time monitoring for agricultural sensors with secure communication, improving data security and reliability in wireless sensor networks.
- Crime File System** Duration: 3 months  
*Developed a front-end interface for a Crime File System using HTML and Visual Studio.*
  - Tools & technologies used: HTML, Visual Studio.
  - Implemented an end-to-end tracking system on the website, reducing FIR processing time by 50 percent and improving data accuracy, leading to enhanced decision-making and operational efficiency.
- Detect Social Media Account** Duration: 30 days  
*Developed a C++ program to detect whether a social media account is fake or real using pattern recognition and data analysis.*
  - Developed a robust detection algorithm in C++, reducing false positives by 40 percent and improving system accuracy.
  - Implemented classification techniques to analyze social media accounts and detect fake profiles based on activity patterns.

## TECHNICAL SKILLS AND INTERESTS

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•**Languages:-** English, Hindi, Oriya, Bengali

•**Developer Tools:-** Code::Blocks, VS Code

•**Cloud/Database:-** AWS, Google Cloud Platform

•**Skills:-** C, C++, CSS, Java, HTML, MySQL, Python, MATLAB, JavaScript, XML, PHP, Data Structures, Node.js, Problem Solving, MS Office

•**Areas of Interest:-** Programming, Data Entry, Cloud Computing, Artificial Intelligence, Finance

## ACHIEVEMENTS

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•**Achievement:-** School-level achievements such as drawing or Photoshop competitions are not relevant for technical roles.

- Technical certifications
- Workshops or training program
- Hackathons or coding achievements

**Date** 17/01/2026

**Place** Seraikella