



Sourav Kumar Gupta

Roll No.: 2022PGCSCA053

Master Of Computer Application

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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

Master of Computer Application

2022-2026

CGPA/Percentage: Pursuing

•Jawahar Lal Nehru College, Chakradharpur

B.Sc IT(Information Technology)

2016-2019

CGPA/Percentage: 72

•Kolhan Inter College, Chaliyama Dam

Intermediate-Science, Jharkahand Academic Council Ranchi, Jharkhand

2015

CGPA/Percentage: 62.40

•Prastabit High School, Sidhdih

Secondary-Science, Jharkahand Academic Council Ranchi, Jharkhand

2012

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

•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

•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