

# Rohit Rawat

Ghaziabad, Uttar Pradesh, 201014 | ☎ 882-648-5977 | ✉ [rohit186201@gmail.com](mailto:rohit186201@gmail.com) | [🌐 LinkedIn](#) | [🐙 GitHub](#) | [📁 Portfolio](#)

## PROJECTS

---

- **Developed an AI Model for images processing using Drone in Crop Monitoring (Python3)**
  - Developed an advanced deep learning model utilizing Convolutional Neural Networks (CNN) for Drone Precision Farming and achieved 92% accuracy in plant disease model.
  - Integrated the model into a web application using the **Flask** library of Python.
  - Leveraged **TensorFlow** and **Keras** libraries to analyze crop images captured by drones, effectively detecting plant diseases.
  - Implemented data augmentation and image preprocessing techniques to enhance the accuracy and robustness of CropEye.
- **Elliptic-curve Diffie–Hellman (Python3)**
  - Implemented TLS draft 1.4 with Elliptic-curve Diffie–Hellman key and Demonstrated server-client functionality using Python asyncio.
  - Successfully simulated a man-in-the-middle attack by mimicking a real-time client with fake credentials.
- **Parallelizing RSA cryptosystem (Python3/C++14)**
  - Parallelized RSA implementation to leverage distributed or multi-core systems.
  - Proposed a method incorporating the Montgomery Reduction algorithm and Designed the Parallel Indexed List to be thread-safe and shareable among multiple worker threads, facilitating encryption and decryption processes.
  - Achieved a speedup factor of up to 4.5 compared to a standard RSA implementation.

## SKILLS

---

- **Technical:** C++ | Python | HTML | CSS | Java Script
- **Database:** MySQL
- **Coursework:** Operating System | Computer Networking | DBMS | Data Structures and Algorithms (DSA) | OOPs
- **Technologies:** Proficiency with Git/GitHub, Windows, Unix/Linux, Mac
- **Interpersonal:** Problem-solving | Tech Enthusiast | Optimistic | Teamwork

## ACADEMICS

---

- Centre for Development of Advanced Computing (GGSIU), Noida  
**MCA, Computer Science** (July 2022 – July 2024)
- Ambedkar Institute of Technology (GGSIU), New Delhi  
**BCA, Computer Science, CGPA: 8.54** (July 2019 – June 2022)

## OTHERS

---

- Scored **104<sup>th</sup>** rank in CodeHaven Central India's Biggest Coding Contest.
- 150+ DSA and **Level 7** coder on coding ninjas (**PROFILE:** [Link](#) )
- Football player and follower, cricket by blood and a avid DC comic books reader