

# ROHIT CHOUDHARY

+91-9472314978 | ✉ [rohitchoudhary5682@gmail.com](mailto:rohitchoudhary5682@gmail.com) | [LinkedIn](#) | [Github](#)

## EDUCATION

---

### Sikkim Manipal Institute of Technology

B.Tech – Computer Science and Engineering; CGPA – 8.5/10.0

Aug 2020 – Aug 2024

Sikkim, India

### Satyam International School

Senior School Certificate Examination, CBSE ; Percentage – 78.4%

June 2017 – March 2019

Patna, India

### Oxbridge International School

Secondary School Examination, CBSE ; CGPA – 9.6/10.0

June 2004 – March 2017

Patna, India

## WORK EXPERIENCE

---

### National Institute of Technology Patna

Research Intern

Jan 2024 – Jun 2024

Patna, India

- Developed an effective malware detection framework leveraging convolutional neural networks (CNN) with Mel spectrograms for comprehensive analysis and classification.
- Conducted preprocessing by converting APK files to JAR files, then generating spectrogram images from hexadecimal content, achieving an intermediate accuracy of 87%.
- Extracted Smali code from APK files and converted it into spectrogram images, achieving 94% accuracy in this preprocessing step.
- Finalized the model by passing both sets of spectrogram images through a CNN in parallel, resulting in a high classification accuracy of 98%.

## PROJECTS

---

### Image Classification using Different Types of Image classifiers | Python, Deep Learning, Kaggle

- Developed and implemented a VGG19-based deep learning model to accurately classify respiratory conditions (COVID - 19, pneumonia, lung opacity, Normal).
- Demonstrated proficiency in evaluating and selecting optimal machine learning classifiers (Random Forest, Decision Tree, KNN, Extra Trees) based on rigorous performance metrics assessment.
- Achieved the highest accuracy of 92.45% with the KNN classifier, while the Random Forest classifier demonstrated strong performance with an accuracy of 90.70%.

### News Application | React.js, Bootstrap

- Developed a user-friendly news app with real-time. Improved user engagement through personalizations and notifications.
- Integrated third-party APIs for diverse news sources, ensuring comprehensive and up-to-date content coverage.

### E – Learning Website | HTML, CSS, JS

- Implemented interactive features for an engaging learning experience.
- Developed and integrated a responsive layout to ensure compatibility with various devices, enhancing the learning experience for users on both desktop and mobile platforms.

## Technical Skills

---

**Languages:** C++(preferred), Python, C, Java(basics), HTML, CSS, JavaScript, MySQL, Advanced in SQL, PHP

**Frameworks & Libraries:** React.js, OpenCV, SKlearn, Numpy, TensorFlow, PyTorch, Bootstrap

**Developer Tools:** Visual Studio Code, Jupyter Notebook, Google Colab, Git, GitHub, Linux

**Concepts:** Data Structures & Algorithms, Operating System, Computer Networks, Database Management System (DBMS), Machine Learning, OOPs Concept, Deep Learning

## Certifications & Training

---

- Tata Data Visualisation : Empowering Business with Effective Insights Job Simulation on Forage
- Introduction to Artificial Intelligence - Infosys
- Machine Learning using Python – (Udemy)
- Data Science by IBM - (Coursera)