

# Hritika Ratnam

Undergraduate

Electronics and Communication Engineering

Indian Institute Of Information Technology, Allahabad

+91-8306866791

hratnam104@gmail.com

Hritika-Ratnam

Hritika-Ratnam

## EDUCATION

### Indian Institute of Information Technology, Allahabad

B.Tech in Electronics and Communication Engineering

2021 - 2025

Uttar Pradesh, India

### RCSS College

Bihar School Examination Board

2019 - 2021

Begusarai, Bihar

### St. Paul's School

Indian Certificate of Secondary Education

2018 - 2019

Begusarai, Bihar

## WORK EXPERIENCE

### CaaStle

Software Engineer Intern

May 2024-July 2024

Remote

- Product Search Added Product Search functionalities using optimized algorithms along with maintaining search history and added many more features to enhance the user experience.
- Recommended Product Created Recommended Products List Customized Components in React.Js, which can be reused in different screens like Product List Page, Product Details Page, and Cart Page.

## PERSONAL PROJECTS

### Blog App | Live Demo [↗](#) | Github [↗](#)

Tools & technologies used: MongoDB, Express.js, React, Node.js

- Built a MERN stack blog application with JWT and bcryptjs-based user authentication.
- Developed RESTful APIs with Express.js and used Mongoose for MongoDB integration.
- Ensured secure environment management with dotenv and real-time updates via Nodemon.

### URL Shortener | Live Demo [↗](#) | Github [↗](#)

Tools & technologies used: React.js, Node.js, Express.js, MySQL

- Developed a URL shortening service with RESTful APIs using Node.js, Express.js, and a MySQL database.
- Created a user-friendly interface with React.js, enhancing usability and interaction.
- Ensured seamless functionality, including link management and redirection, for a smooth user experience.

### Breast Cancer Detection using Hybrid CNN and Vision Transformers (ViT)

Tools & technologies used: ResNet50, InceptionV3, Vision Transformers (ViT), Python, TensorFlow

- Developed a hybrid model using CNNs (Inception-V3, ResNet-50) and Vision Transformers for IDC detection.
- Trained on a large dataset, achieving high accuracy and aiding pathologists in diagnosis.
- Completed as a minor academic project.

## TECHNICAL SKILLS AND INTERESTS

**Languages:** C / C++, Python (intermediate), HTML, CSS, SQL, JavaScript

**Developer Tools:** VS Code, Jupyter Notebook, Google Colab, Git, MYSQL Workbench

**Frameworks and libraries:** ReactJs, NodeJs, ExpressJs, Mongoose

**Cloud/Databases:** MySQL, MongoDB

**Soft Skills:** Communication, Collaboration, Leadership, Team-work

**Coursework:** Introduction to Programming, DSA, OOPs, DBMS, Operating Systems, Computer Network

## ACHIEVEMENTS AND CERTIFICATIONS

- Secured **Global Rank 481 out of 36727** in Leetcode Biweekly Contest 138 and **Global Rank 1756 out of 41337** in Biweekly Contest 136. **Leetcode** [↗](#)
- Comprehensive knowledge of **DSA with 800+** problems solved on various Coding Platforms.
- Solved over **100+** POTD problems on **GeeksforGeeks** [↗](#), enhancing algorithmic and problem-solving skills.
- Secured **4th rank** in **SheHacks'22** at the Indian Institute of Information Technology.
- Secured **3rd rank** in **OOC** at the Indian Institute of Information Technology.
- Completed the **git and github** course on **Geekster** [↗](#) and attended the **ultimate fronted bootcamp** on **Udemy** [↗](#)

## POSITIONS OF RESPONSIBILITY

- Head of Finance:** Aparoksha '24 - Annual Technical Fest of IIITA Apr 2024
- Head of Hospitality:** Effervescence '24 - Annual Cultural Fest of IIITA Apr 2024
- Event Organizer:** SheHacks Hackathon, Pro-Arduino (Aparoksha '24) May 2023
- Wing Coordinator, IOT:** TESLA - Electronics Society of IIITA 2023 - 2024
  - Coordinated numerous IoT events and workshops for students through TESLA, the Electronics Society of IIITA.