# CHANDAN KUMAR

+91-8789629375 chandanues@gmail.com LinkedIn GitHub Portfolio

## EDUCATION

**Indian Institute of Information Technology, Allahabad** **2021-07 - 2025-06**
*Bachelor of Techology in Information Techonology GPA: 7.95(Till 6th Sem.)* *Allahabad, U.P., India*

**Gaya College, Gaya** **2020-04 - 2021-04**
*Class XII (State Board) Percentage: 88.8%* *Gaya, Bihar, India*

## RELEVANT COURSEWORKS

- Data Structures
- Computer Networks
- Database Management
- Object Oriented Programming
- Software Engineering
- Operating System
- Machine Learning
- Neural Networks

## SKILLS

**Languages/Databases**: C/C++, Python, Javascript, Scripting, NodeJs, MongoDB, SQL, PL-SQL
**Developer Tools**: Linux, Docker, Git, VSCode, Intellij, Google Colab, Postman
**Technologies/Frameworks**: Express Js, Tensorflow, scikit-learn,Spring Boot, Microservices

## EXPERIENCE

**Buildwithpeers - *Software Engineer Intern*** **2024-01 - 2024-04**

- Engineered a scalable backend for an e-commerce app accommodating up to 20,000 concurrent users during peak traffic.
- Decreased debugging time by 50 percent and enhanced system monitoring efficiency by over 20 metrics utilizing Zipkin.
- Optimized system latency by 250 ms through the implementation of Eureka Server for load balancing and service discovery.

**IIIT Allahabad - *Research Intern Under Prof. O.P. Vyas*** **2023-07 - 2023-12**

- Conducted research to improve COVID-19 detection accuracy using EfficientCovidNet and a custom CNN model & implemented using two different methods: **Single Model** and **Two-Step Model**.
- Improved model performance by attaining 96.5% training accuracy and 97.2% validation accuracy with the Single Model. surpassed benchmarks with the Two-Step Model, achieving 97.3% (training) and 98.0% (validation) accuracy rates.
- Two-Step Model demonstrated higher performance with an overall accuracy of 97.8%, precision of 0.99, sensitivity of 0.97.

## PROJECTS

**Grow Planet** **2023-03 - 2023-04**

- Developed an end-to-end platform for farmers, delivering comprehensive solutions from crop cultivation to marketing with a robust designed platform featuring **4 modular components**: Plantopedia, Plant-Lab, Disease Predictor, & Crop Bid.
- Deployed Plant Lab using machine learning achieving 98 percent accuracy in crop recommendations for over **1,000 regions**.
- Boosted user engagement, enhancing access to agricultural knowledge for more than **5,000 farmers**.

## PUBLICATIONS

- *Enhanced Heart Disease Classification Using Parallelization and Integrated Machine-Learning Techniques:* This study employs a diverse array of machine learning algorithms and techniques to develop an efficient and accurate disease detection system, with a focus on heart disease prediction, to improve patient safety and reduce medical errors. **2024-07-03**
- *An Enhancement in Accuracy for Breast Cancer Prediction Using Machine Learning and Deep Learning Model:* Implemented the **Parallel Adaptive Local Hyperplane algorithm**, significantly enhancing breast cancer prediction accuracy by 98.68%leveraging SVM with KNN ensembling techniques. **2024-01-03**

## ACHIEVEMENTS

- Spreadheaded the development of our project **Grow Planet** for the Solve for India Hackathon, organized by **Google Cloud & AMD** advancing to the regional finals among 100+ colleges.
- Qualified for the semifinal of hackathon, **Flipkart Grid 5.0** & **Amazon Hackon 2024**.
- Contributed a technical article on **Buffer Management in C Programming** on GFG, achieving over **12,000** views.
- Achieved proficiency in data structures and algorithms by tackling over 400 coding challenges on platforms like **LeetCode** & **GeeksForGeeks**
- Secured a remarkable accomplishment by having a position in the top 3 percentile in JEE Mains exam.