

# Ankit Agarwal

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 [Bento](#)

 [satish48a@gmail.com](mailto:satish48a@gmail.com)

 [Ankit23x](#)

 [wwhოდisdude](#)

## PROJECTS

### [AetherWatch](#) - AI-Enhanced DNS Filtering for Fintech Security - winner of [HumanAIze Hackathon, 2024](#)

- Developed a Python-based UDP DNS server with support for multiple record types and parallel processing for high scalability.
- Implemented an ensemble ML classification model, improving PCI DSS and GDPR compliance checks by 25% in accuracy and reducing false positives by 15%.
- Designed an interactive UI using ReactJS and Tailwind CSS, achieving a faster response time.
- Utilized system-configured resolvers with robust error handling, ensuring 90% uptime and seamless deployment across various production environments.

Tags: Python, ReactJS, TailwindCSS, Ensemble ML, TAXII/STIX, PCAP analysis

### [Helmdall](#) - Security Auditing Tool - winning project for [Kavach, 2023](#)

- Designed a user-friendly interface using Nuxt 3, Vue, and Tailwind CSS for a Linux/Windows security auditing tool, optimizing usability for both technical and non-technical users.
- Led collaboration between developers and designers to turn technical specs into a functional platform, reducing bug reports by 25% during rollout and improving user experience.
- Leveraged state management techniques for optimal functionality and established CIS benchmark results for security compliance auditing.

Tags: Nuxt 3, Vue, Tailwind CSS, State Management, CIS Benchmarking

### [Samklaang](#) - intelligent collaboration suite - winning project for [the Smart India Hackathon, 2023](#)

- Architected and maintained a scalable component structure for a React application, resulting in improved load times and user satisfaction; achieved a notable decrease in page load times by 50%, enhancing overall application performance.
- Crafted an intuitive user interface using React and Tailwind CSS, utilizing React Hooks for efficient state management and side effects.
- Planned and deployed an authentication page that streamlined user access, incorporating advanced security measures, reduced user onboarding time by 20% and improved user retention rates through a more efficient login process.

Tags: ReactJS, NextJS, WebRTC, TailwindCSS, SupaBase, Livekit

## EXPERIENCE

### All India Council for Technical Education

May, 2024 -

Intern and Student Developer

- Developing Samklaang further for application in the internal workings of AICTE.

## SKILLS AND CERTIFICATES

- [Supervised Machine Learning](#) - [deeplearning.ai](#)
- [Google Advanced Data Analytics \[7+8 courses\]](#) - [Coursera](#)
- [OCI Generative AI Professional](#) - [Oracle](#)
- Languages:** Java, C++, Python, Javascript, SQL
- Frameworks & Tools:** NuxtJS, NodeJs, ReactJs, Tailwindcss, Git, GCP, AWS\*, Kubernetes\*

## ACHIEVEMENTS

- Winner of Kavach, 2023**
- Winner of Smart India Hackathon, 2023**
- Winner of Technothon IOT Exposition, 2024** (Led my Team.)
- Winner of HumanAIze Hackathon <Fintech Edition>, 2024** (Led my Team.)

## EDUCATION

**Techno India University** Kolkata, IN

August, 2021 - 2025

B.Tech - Computer Science and Engineering (AI/ML)

CGPA: 8.10

**Adamas International School** Kolkata, IN

April, 2021

ISC (XII) - Computer Science

CGPA: 84.5%

ICSE (X) - Computer Science

April, 2019

CGPA: 91.2%