# AMAN RAJ

7488950596 | itisamanraj@gmail.com | linkedin.com/in/aman-raj-965b34251/ | github.com/turtletheracer

## TECHNICAL SKILLS

C++, Python, Node.js, React.js, WebRTC, Socket.IO, MERN Stack, Logistic Regression, SVM, CNN, Selenium, MySQL,Git

## PROJECTS

**WatchMate** | Node.js, WebRTC, Socket.IO, React/Vanilla JS                                    *Feb 2025 – Apr 2025*

- Built a real-time collaborative platform allowing users to watch videos together with integrated video calling and live chat, ensuring seamless interaction across devices.
- Implemented a highly accurate Local Sync Mode using HTML5 Video and Socket.IO, achieving frame-level synchronization across multiple users with minimal bandwidth usage.
- Added Streaming Mode with WebRTC to support live video streaming and screen sharing for flexible collaboration.
- Optimized for low-bandwidth or unstable connections by separating video call traffic from sync signals.
- Developed frontend with React/Vanilla JS and backend with Node.js + Express for real-time interaction.

**ArogyaX** | MERN, Python, Logistic Regression, SVM, CNN, InceptionResNet                       *Feb 2024 – Jun 2024*

- Developed a multi-disease prediction platform using the MERN stack, integrating ML models for heart disease, diabetes, breast cancer, and lung cancer.
- Implemented Logistic Regression, SVM, CNN, and InceptionResNet for accurate tabular and image-based predictions.
- Added features like prescription auto-fill, medical image uploads, PDF report generation, and real-time notifications.
- Deployed ML models within Node.js using Child Processes, removing the need for a separate Flask server.
- Secured with user authentication and MongoDB, ensuring reliability and scalability.

**StayFinder** | Python, Selenium, PrettyTable                                                   *Aug 2023 – Oct 2023*

- Designed and automated the end-to-end hotel booking workflow using Python and Selenium, covering date selection, guest input, and real-time deal extraction.
- Implemented dynamic web scraping scripts to handle interactive elements, pop-ups, and multiple booking sites, achieving 95% accuracy in automation.
- Compiled extracted hotel deals into structured tabular reports using PrettyTable, enabling faster price comparison and decision-making.
- Reduced manual booking effort by over 80% through automation, improving efficiency and reliability of hotel search workflows.

## CERTIFICATES

**Certified AI Foundations Associate** | Oracle                                                   *Aug 2025*

## EXTRA-CURRICULAR

- Qualified TCS CodeVita Season 13 Round 1, ranking among top performers in one of India's largest coding competitions.
- First Place Winner, Gamer's Asylum (Overwatch 2.0) – Secured 1st place among multiple college teams in an inter-college esports competition, showcasing teamwork, strategy, and quick decision-making.
- Competed in SECVIT'24 (CTF), progressing till the final round through hands-on problem-solving in cryptography, networking, and system security.
- Competed in district and inter-college badminton championships, demonstrating consistency and performance under pressure.

## EDUCATION

**Vellore Institute of Technology**                                                               *2022 – 2026*
*Bachelor of Technology in Computer Science and Engineering*                                       CGPA: 8.55/10