

Aditya Tiwari

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Summary

Innovative Computer Science undergraduate at AITR with expertise in React, JavaScript, AI-driven solutions, and facial recognition systems. Proven leader serving as Vice Chair of IEEE Student Branch and International Service Director at Rotaract Club. Experienced in front-end development, research publication, and building scalable applications with focus on healthcare and AI technologies.

Education

Acropolis Institute of Technology and Research *BTech - Computer Science and Information Technology* 2023 – 2027

- GPA: 7.0 — **Coursework:** Computer Architecture, DBMS, Java, C++, Algorithms, Data Structures, .NET

Sarafa Vidya Niketan — *XII Grade - 83.4%* 2023

Sarafa Vidya Niketan — *X Grade - 81.4%* 2021

Technical Skills

Programming Languages: C++, Java, C#, JavaScript, Python, SQL, HTML, CSS

Frameworks & Libraries: React.js, .NET Framework, Spring Boot, Node.js

Technologies & Tools: Google Cloud Platform, Git, GitHub, MySQL, Microsoft SQL Server

AI & Machine Learning: GenAI, Prompt Engineering, Natural Language Processing, Computer Vision

Design & Others: Canva, RESTful APIs, Cross-browser Compatibility, Responsive Design

Projects

Anveshan AI - Lost & Found Human Identification System 2024

- Developed AI-powered system using advanced facial recognition and real-time analytics for reuniting missing persons
- Implemented computer vision algorithms with high accuracy matching and database management for family connections
- Integrated user-friendly interface with secure data handling and privacy protection mechanisms

Medicine Recommendation System - Smart Healthcare Tool 2024

- Built intelligent healthcare platform leveraging NLP and ML for precise medicine recommendations with confidence scoring
- Developed React-based interface providing comprehensive medicine information including side effects, dosage, and contraindications
- Implemented alternative drug suggestions based on composition analysis and symptom-based medication lookup

Professional Experience

Front-end Developer (Internship) — *Fast and Right Services, Indore* Aug 2024 – Sep 2024

- Developed clean, efficient, and reusable code using HTML, CSS, JavaScript, and React.js framework
- Collaborated with design team to transform wireframes into functional, responsive interfaces with cross-browser compatibility
- Redesigned chat file format architecture and implemented backward compatibility for enhanced search functionality
- Optimized application performance and ensured mobile-responsive design across multiple devices

Research Publications

K-dimensional Trees for Efficient Face Detection: Reducing Time Complexity — *TechRxiv* May 2025

- Proposed optimized approach using K-d trees for accelerating face detection matching phase
- Demonstrated computational complexity reduction from $O(n)$ to $O(\log n)$ for nearest neighbor searches

Integrating Renewable Energy into ASIC-based Crypto Mining — *IC13-2024* Oct 2024

- Explored sustainable cryptocurrency mining through renewable energy integration with ASIC systems
- Analyzed energy efficiency improvements and environmental impact reduction in blockchain operations

Leadership & Extracurricular Activities

Vice Chair — *IEEE Student Branch, AITR* Current

- Leading IEEE community initiatives, organizing technical workshops, and fostering innovation among students

International Service Director — *Rotaract Club of Acropolis Royals* Current

- Managing international collaboration projects and community service initiatives

Campus Ambassador — *GeeksforGeeks* Current

- Promoting coding culture and technical learning among students through workshops and competitions