

Samarth Varshney

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Bachelor of Technology

Zakir Hussain College of Engineering and Technology, AMU

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🌐 Portfolio

🐙 GitHub

🌐 LinkedIn

EDUCATION

| Degree/Certificate | Institute/Board | CGPA/Percentage | Year |
|----------------------------|--|-----------------|-------------|
| B.Tech., Electronics Engg. | Zakir Hussain College of Engineering and Technology, AMU | 9.46 | May, 2026 |
| Senior Secondary | CBSE | 94.6% | March, 2022 |
| Secondary | CBSE | 93.4% | March, 2020 |

PERSONAL PROJECTS

• WanderLust (Clone of Airbnb)

A clone of website help in Hotel Booking.

- WanderLust is a full-stack web platform for browsing, booking, and listing vacation accommodations like houses, villas, and farmhouses. It features a seamless booking system, real-time property views API, and secure logins . The platform ensures responsive performance with a dynamic server and an intuitive, user-friendly interface.
- Technology Used: HTML,CSS,JavaScript,MongoDB,Node.js,Express.js.

• Blackjack AI - Advanced Casino Game with Machine Learning

A sophisticated React-based Blackjack game featuring cutting-edge AI algorithms and immersive casino experience.

- Monte Carlo Simulation & Q-Learning Algorithm - Statistical decision-making and Reinforcement Learning through thousands of simulated game scenarios.
- Real-time AI Analytics - Live visualization of AI decision-making process with confidence metrics.
- Technology Used: Reactjs,JavaScript,ML,CSS.

• 5G-IOT Drip Irrigation Smart Remote Control System

Daily and weekly updated statistics tracking the number of COVID-19 cases, recovered, and deaths.

- This project develops a smart drip irrigation system using 5G-IoT technology for efficient water management in agriculture with real-time remote monitoring, automated soil moisture detection, and data analytics to optimize water usage and improve crop yield while conserving resources.
- Tools Used: Embedded C/C++, 5G IoT Communication, MQTT Protocol,Arduino,ESP32.

EXPERIENCE

• Software Development Intern

June 2025 - July 2025

Center for Developing Intelligent Systems, IIT Kanpur

Offline

- Developing full-stack web applications, implementing both front-end and back-end functionalities.
- Working on AI-based projects, enhancing user experience through machine learning algorithms.

• Full Stack Web-Development Intern

Dec 2024 - Jan 2025

Coder One

Online

- Developed and deployed two full-stack web applications, implementing both front-end and back-end functionalities.
- Worked with modern web technologies, including JavaScript, React, Node.js, and MongoDB, to build scalable solutions.
- Collaborated with a team to optimize application performance and enhance user experience.

• Analog Design and Circuits Internship

June 2024 - Dec 2024

AMU

Online

- Worked on circuit simulations and performance optimizations using LTSpice and Cadence.

TECHNICAL SKILLS AND INTERESTS

Languages: C/C++, Python, Javascript, HTML+CSS

Libraries : C++ STL, Python Libraries, ReactJs

Web Dev Tools: Nodejs, VScode, Git, Github

Frameworks: ReactJs

Cloud/Databases:MongoDb, Relational Database(mysql)

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Object Oriented Programming

Areas of Interest: Web Design and Development, AI/ML

Soft Skills: Problem Solving, Self-learning, Presentation, Adaptability

POSITIONS OF RESPONSIBILITY

• Joint Secretary EDIC CLUB, AMU

- Helped to organize workshops at college
- Attended Hands-on Sessions.