

# 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

*A smart irrigation system that addresses the real-life problem in villages.*

- 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.