

Siddhant Jha

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ABOUT ME

B.Tech Computer Science student at VIT Bhopal with expertise in full-stack development, crafted projects in DevOps domain. Proficient in leading technical workshops through the Microsoft Club. Skilled in leveraging Machine Learning models to analyze and work with various data sets, showcasing skills in Data Science domain with a strong focus on delivering high-quality solutions.

EDUCATION

- **VIT University, Bhopal** Oct 2022 – Oct 2026
Bachelor of technology in Computer Science and Engineering (Core) **CGPA: 8.64**
- **AG DAV Centenary Public School, Delhi** April 2021 - May 2022
Higher Secondary (Class XII) **79%**
- **AG DAV Centenary Public School, Delhi** April 2019 - May 2020
Secondary (Class X) **86%**

TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, TypeScript, Java, HTML5, CSS3, SQL, CPP, GoLang
- **Frameworks:** React.js, Next.js, Express.js, Node.js, Tailwind CSS
- **Databases:** MySQL, MongoDB, PostgreSQL
- **Tools & Platforms:** Git, Linux, GitHub, Google Collab, Jupyter ,VSCode, Docker, AWS

PROJECTS AND EXPERIENCE

Digit Recognition using Neural Network

[\[GitHub Link\]](#)

- Built a 3-layer neural network from scratch using NumPy, achieving 88% training accuracy on synthetic datasets.
- Implemented forward/backward propagation, loss functions, and gradient descent without deep learning libraries.
- Boosted training speed by 40% using NumPy vectorization for optimized matrix operations.
- **Technologies:** Python, Jupyter Notebook, NumPy

HarvestHub: ML Driven Agricultural Assistant

[\[GitHub Link\]](#)

- Developed a responsive UI using React.js and CSS, improving page load time by 30%.
- Integrated frontend with REST APIs to enable real-time data display and dynamic UI.
- Enhanced UX with reusable components, reducing code redundancy by 40% and accelerating development.
- **Technologies:** REACT.js, HTML5, CSS, JAVAScript, Python, MySQL

AES Image Encryption

[\[GitHub Link\]](#)

- Developed a web app using AES-256 to encrypt/decrypt images, processing 5MB files in under 2 seconds.
- Created a 32-character key mechanism, handling 1,000+ cycles with 100% data integrity.
- Designed a responsive site supporting 100 concurrent users with minimal response time.
- Implemented React for app building, JavaScript to integrate encryption-decryption script with app and Python to build the encryption and decryption script.
- **Technologies:** React.js, HTML, CSS, JAVAScript, Python

CERTIFICATIONS

- **Cloud Computing** - NPTEL
- **Marketing Analysis** - NPTEL
- **Bits & Bytes of Computer Networking** - Google
- **Data Analysis with Python** - IBM
- **GenAI Using IBM WatsonX** - IBM

ACHIEVEMENTS

- **SIH 2024 Round 1 Finalists:** Delivered efficient solution to proposed problems, conquering over 86000 teams.
- **Immersion Select:** Among top 10% of candidates from a competitive pool of 929 applicants in college contest.
- **Data Structures and Algorithms:** Tackled over 300 problems on LeetCode, GFG, CodeForces and HackerRank.

LANGUAGES AND INTERESTS

Languages: English | Hindi

Hobbies: Football | Music | Gaming