

# Sarthak Sidhant

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## AIM, GOALS AND PASSION

Aspiring software engineer with a passion for building innovative solutions using Python, robotics, and web development. Proven ability to create impactful projects, as demonstrated by the success of dpsbk.live (student-run resource website) and GoCattle.site (AI-powered cattle healthcare platform). Strong collaborator and communicator with a talent for networking, ideation, and marketing. Seeking opportunities to apply my technical skills and passion for problem-solving to create meaningful impact.

### SKILLS

Python	Cybersecurity	Project Management
Web Development	Cryptography	Ideation
Robotics	Automation	Marketing
Artificial Intelligence	Git/Github	Networking
Machine Learning	Bootstrap	OSINT

### EDUCATION

#### Delhi Public School, Bokaro

- Nursery to Std 10th (2012 -2024)
  - Consistent Academic Performance
- Marks in 10th CBSE Board Exam: 92.8%**

## PROJECTS

### dpsbk.live

Student-run website providing notes and resources to primarily DPS Bokaro students but also helped students of over 26 schools. Distributed 34,890+ copies of notes to 1,200+ students, amassing 450 monthly viewers and 36,000 clicks in Q1 2024.

Skills: Web Development (HTML, CSS, Bootstrap), Content Creation, Community Building, Marketing

### Go-Cattle (GoCattle.site)

AI-powered cattle healthcare platform featuring a web app for disease diagnosis using ML models. Subsidiary module (COW) for physical health monitoring. Featured in CBSE science exhibition.

Skills: AI, Machine Learning (ML), Computer Vision (CV), Python, Web Development, Robotics, Data Science, Project Management

### PANEL

Multipurpose panel tool mimicking a remote desktop portal. Offers music player, to-do list, note-taking, and other tools. Open source, contributions from multiple students.

Was Featured in Oregon State University, Cascades.

Skills: Web Development (HTML, CSS, JavaScript), Automation, Collaboration, Open Source Contribution

## Robotics Projects & Reports

The following projects show my experience in robotics:

- **GoCattle (COW):** Developed a physical module for real-time cattle health monitoring, integrating various sensors and implementing health assessment algorithms.
- **Blind Headband:** Collaborated in a Blind Smart Headband Project, which could detect and analyze objects, and was an all-in-one solution for blind people, was featured in CBSESE in December, 2023.
- **Flipper Zero Clone:** Replicated Flipper Zero functionalities (RFID, infrared, Sub-GHz) using an M5Stack Cardputer and custom code. (on-going)
- **Custom Marauder Build:** Built a custom ESP32 Marauder device for Wi-Fi and Bluetooth security testing. Implemented custom scripts and tools for network analysis and vulnerability assessment.

**Skills showcased:** Robotics, Embedded Systems, C/C++, MicroPython, ESP32 Development, Wi-Fi/Bluetooth Security, Sensor Integration, Data Analysis, Algorithm Development, Hardware Programming, Cybersecurity

## Other Projects

- **Rellekk-Z**: Sign language interpreter.
  - Skills: Python, Machine Learning, Image Processing
- **Decodificate**: Developer community platform.
  - Skills: Web Development, Community Management
- **Bracelets, Ducky, FireFlash, JARVIS, Charc, HoomansBOT**: Various projects involving Cryptography, Cybersecurity, Discord bots, Website, hardware, and software development.
  - Skills: Python, Discord API, Hardware Integration, Automation, Cryptography, Ideation

## sarthaksidhant.com

Developed and maintained a personal website and portfolio showcasing projects, skills, and writings.

Customized an open-source template to create a unique online presence.

- Skills: Web Development (HTML, CSS, JavaScript), Content Creation, Git/GitHub
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## WRITING

- *Technical Tutorials*:
    - **Python Tutorials**: Created a series of Python tutorials covering basic syntax, data structures, and common libraries, aimed at beginners and intermediate learners.
    - **Web Development Tutorials**: Developed tutorials on HTML, CSS, and JavaScript, explaining fundamental concepts and guiding readers through building simple websites.
  - *Informative Articles*:
    - **Protecting Our Digital Selves: Lessons from a Cyber Security Campaign**: Detailed a personal experience with online impersonation and the subsequent cybersecurity measures taken for it.
    - **The Bokaro War 1979**: Researched and wrote about a local historical event, providing a unique perspective on a lesser-known conflict.
    - **Emacs vs VI - The Editor Wars**: Explored the long-standing debate between two popular text editors, presenting a balanced analysis of their features and user communities.
  - *Literary Research*:
    - **Shakespeare's Julius Caesar's Last Words**: Conducted research to fact-check a claim about Julius Caesar's final words, showcasing critical thinking and historical analysis skills.
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## WORK EXPERIENCE AND VOLUNTEERING

- **SDE & Marketing Intern, Owehost (2024)**
    - Developed and maintained web applications, implemented marketing strategies, and optimized website performance.
  - **Trainee Software Engineer, Plasma Dev (2024)**
    - Gained hands-on experience in the software development lifecycle, contributing to projects and troubleshooting technical issues.
  - **Outreach Lead, Project Prayaas Bokaro (2024)**
    - Led outreach efforts, coordinated volunteers, and organized events to promote the project's initiatives.
  - **Ideation, Software & Marketing, CBSS (2023-Present)**
    - Develop and implement software solutions, create marketing campaigns, and contribute to improving access to education
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## CERTIFICATIONS

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| • <b>Vanderbilt University</b> : Introduction to Programming with MATLAB  | • <b>National Cyber Olympiad (NCO)</b> : Zonal Rank 3 (x2)               |
| • <b>Programming Hub</b> : Python for Beginners   | • <b>Science Olympiad Foundation (SOF)</b> : Multiple Merit Certificates |
| • <b>Mimo GmbH</b> : <ul style="list-style-type: none"><li>◦ Programming for Games</li><li>◦ Become a Hacker</li><li>◦ Programming for Android Apps</li></ul> | • <b>Rhyme</b> : Introduction to Command Line Interface (CLI)            |
| • <b>Delhi Public School Bokaro</b> : Robotics (2nd Position, Interhouse)   | • <b>HackerRank</b> : Python Skills Certification                        |
|   | • <b>Google Cloud</b> : 30 Days of Google Cloud                          |
|   | • <b>Google Developer Student Clubs (GDSC)</b> WOW                       |
|   | • <b>Google</b> : Introduction to Git and GitHub                         |
|   | • <b>University of Michigan</b> : Introduction to HTML5                  |