

# UTKARSHA MEDHEKAR

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## EDUCATION

### B. Tech, Computer Science

Birla Institute of Technology, Mesra  
Expected May 2026 | Patna, India  
Current CGPA: 7.69/10.0

### AISSCE

Delhi Public School, Ranchi  
Percentage: 94.5%

### AISSE

Surendranath Centenary School, Ranchi  
Percentage: 92.83%

## COURSEWORK

- Data Structures & Algorithms
- Object-Oriented Programming
- Design and Analysis of Algorithms
- Operating Systems
- Database Management Systems (DBMS)

## TECHNICAL SKILLS

### Programming Languages

- Java
- C/C++
- JavaScript
- HTML
- CSS

### Tools:

- **Development Tools:** VMware, Git, Visual Studio Code, GitHub
- **Forensics Tools:** Autopsy

## PROJECTS

### Gym Website

HTML / CSS

- Crafted an engaging frontend for a state-of-the-art gym website, optimizing user experience with seamless navigation, intuitive links, and a user-friendly registration form.

### Food Website

HTML / CSS

- Designed a fully responsive frontend for a modern food website, enhancing user engagement with intuitive navigation and captivating design. Implemented seamless links for effortless exploration of the platform's offerings.

### Google Assistant Clone

Python

- Created a personalized Google Assistant using the Gemini API, offering tailored assistance and streamlined interactions for enhanced user experience.

## EXPERIENCE

### Smart India Hackathon, 2023

#### Birla Institute of Technology, Patna

- **UX & UI Design:** Worked as UI & UX designer for the presentation and website.
- **Project Manager:** Managed the website development, addressing the needs of the audience and app services.

### Smart India Hackathon, 2024 (Ongoing)

#### Birla Institute of Technology, Patna

- **UX & UI Design:** Currently working as UI & UX designer for the presentation and website.
- **Project Manager:** Overseeing website development, ensuring it meets audience needs and app service requirements.
- **Frontend Developer:** Developing the frontend for the website.

### Summer Internship in Cybersecurity and Blockchain

#### Birla Institute of Technology, Mesra, Ranchi

June 10 - July 10, 2024

- **Blockchain Transactions and Smart Contracts:**
  - Executed over 50 transactions using a dummy Ethereum blockchain, gaining hands-on experience with blockchain mechanics.
  - Developed 10+ smart contracts for various functions, such as storing client information and performing arithmetic operations, resulting in a 30% increase in efficiency for data handling tasks.
  - Learned to generate a blockchain block, contributing to the creation of a test blockchain network with 5 blocks.
- **Autopsy & Forensic Analysis:**
  - Utilized Autopsy to analyze and extract geolocation data from 20+ images and examined metadata from 100+ files within the system.
  - Identified and documented 15 critical pieces of information through metadata and file structure analysis, aiding in forensic investigations.
- **Basic Hacking & Security Skills:**
  - Conducted 10+ basic hacking activities using Kali Linux, including retrieving passwords from test systems to simulate real-world penetration scenarios.
  - Gained practical experience in ethical hacking, contributing to a simulated vulnerability assessment that identified 5 critical vulnerabilities.
- **Security Standards & Regulations:**
  - Acquired knowledge about the Data Protection and Digital Privacy Act (DPDP) 2023, including the impact on data privacy and protection for 3 hypothetical organizational case studies.
  - Studied ISO certification standards and contributed to a compliance report, improving understanding of organizational security by 25%.
  - Analyzed and evaluated security posture through simulated assessments, identifying 10 areas for improvement in organizational security measures.

## ACHIEVEMENTS

- **2nd Runner-Up**, All Jharkhand UCMAS Abacus & Mental Arithmetic Competition
- **2nd Runner-Up**, Interschool Badminton Competition
- **2nd Prize**, School Singing Competition

## EXTRACURRICULAR ACTIVITIES

- Led and coordinated TECHNIKA, increasing event attendance by 50% and receiving positive feedback from over 200 participants.
- Participated in various interschool competitions.
- Engaged in school-level sports and cultural events