

UTKARSHA MEDHEKAR

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EDUCATION

B. Tech, Computer Science

Birla Institute of Technology, Mesra

Current CGPA: 8/10.0

AISSCE (Class 12)

Delhi Public School, Ranchi

Percentage: 94.8%

AISSE (Class 10)

Surendranath Centenary School, Ranchi

Percentage: 94.2%

COURSEWORK

- Data Structures & Algorithms
- Object-Oriented Programming
- Design and Analysis of Algorithms
- Artificial Intelligence & Machine Learning
- Database Management System (SQL)
- Cryptography and Network Security

TECHNICAL SKILLS

Programming Languages- Java, C, Python, JavaScript, TypeScript, HTML, CSS

Frameworks & Libraries- React, Next.js, Tailwind CSS, Bootstrap, NumPy

Tools & Platforms - Git, Figma, Anaconda, Visual Studio Code, Autopsy

PROJECTS

World Clock

HTML / CSS (Bootstrap, custom styling) / JavaScript

- Created a responsive multi-time zone clock with smooth scroll and toggle features.

Fruit Flashcards

React / Tailwind CSS / JavaScript

- Designed a kid-friendly app to promote healthy eating through interactive flashcards.
- Implemented random reordering and expandable cards showing nutritional facts.

Machine Learning Models Implementation

Python / Scikit-learn / TensorFlow / NumPy / Matplotlib.

- Implemented multiple supervised and unsupervised ML models (Regression, Classification, Clustering) on diverse datasets.
- Performed **data preprocessing, cleaning, scaling, and train-test split**, followed by evaluation using accuracy, precision, recall, and RMSE.
- Visualized results with **Matplotlib**, demonstrating insights from model performance and decision boundaries.

EXPERIENCE

Summer Internship in Cybersecurity and Blockchain

Birla Institute of Technology, Mesra, Ranchi

June 10 - July 10, 2024

- **Blockchain Transactions & Smart Contracts:**
 - Executed 50+ Ethereum transactions, developed 10+ smart contracts, and contributed to a 5-block test blockchain network.
- **Forensic Analysis:**
 - Used Autopsy to extract geolocation data from images and analyze metadata from 100+ files for forensic investigations.
- **Security Compliance:**
 - Studied DPDP Act 2023 and ISO standards, contributing to compliance reports and simulated security assessments.

Internship in AI/ML

MICROSOFT X INTRNFORTE

Jan 10 – Feb 9, 2025

- **Machine Learning:**
 - Data preprocessing, regression (linear, polynomial, support vector), classification (logistic regression, KNN, SVM, decision trees), and Random Forest.
- **Deep Learning:**
 - Neural networks, TensorFlow hands-on, and convolutional neural networks.
- **Unsupervised Learning & Generative AI:**
 - Object detection, human pose estimation, and prompt engineering.

Web Development Intern

[DeliveryPartners.in](https://deliverypartners.in) — Remote / Bihar-wide Logistics Platform

May 10 – July 10, 2025

- **Tech Stack:** Next.js, TypeScript, Tailwind CSS, React Hook Form, Zod, JWT, Express.js, PostgreSQL, Prisma, Shadcn UI
- Developed - <https://deliverypartners.in/> - comprehensive frontend solutions for a Bihar- wide logistics platform, including user/driver and full- featured admin applications.
- Implemented robust, JWT-based authentication for multiple user roles (customer, driver, admin) and built responsive UIs for core functionalities like vehicle selection, fare display, and admin management (bookings, drivers, vehicles).

EXTRACURRICULAR ACTIVITIES

- Member of IEEE Club, T&P Cell (Student Coordinator), Student Startup Cell (NPTIS-2025), and Student R&D Cell
- Cleared internal hackathon for [Smart India Hackathon 2024](#)
- Developed interactive [3D animation in Figma](#), enhancing UI/UX design portfolio.