

Ashutosh Sharma

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Education

- **Bachelor of Technology in Computer Science and Engineering\ Indian Institute of Technology, Mandi\ CGPA: 8.49/10.00\ 2019 - 2024**
 - **Montessorie Cambridge School, Raja Ka Bagh\ CBSE Board, Class - XII: 83.4%\ 2017 - 2019**
 - **Montessorie Cambridge School, Raja Ka Bagh\ CBSE Board, Class - X: 10/10 CGPA\ 2015 - 2017**
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Skills

- **Programming Languages:** C + + , Python, PHP, Kotlin
 - **Libraries:** TensorFlow, OpenCV, PyTorch, Keras, Scikit-learn, NLTK, Numpy, Pandas, Matplotlib
 - **Web Development:** HTML, CSS, JavaScript, Node.js, MySQL, ReactJS, MongoDB
 - **Blockchain:** Web3, Solidity, Smart Contracts, React
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Relevant Courses

- Data Structures and Algorithms
 - Information & Database Systems
 - Mathematical Foundation of Computer Science
 - Data Science-1,2,3 (Probability & Machine Learning)
 - Linear Algebra
 - Artificial Intelligence (Stanford online, CS:221)
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Projects

Age and Gender Detection on CCTV Videos

- *Developed an age and gender detection system using Python, PyTorch, OpenCV, MTCNN, ImageAI, Deepface, Keras, and TensorFlow.*
- *Utilized image processing techniques including SR GAN, DL, and object detection with ImageAI.*
- *Implemented age prediction using the Deepface library.*
- [GitHub Repository](#)

Tower Defense AI

- *Developed a Tower Defense game and designed an AI algorithm to play the game using Python, Pygame, and a Genetic Machine Learning Algorithm.*
- *Explored multiple algorithms and ultimately implemented a Genetic Algorithm from scratch, achieving human-level performance.*
- [GitHub Repository](#)

Automated Proctoring

- *Developed a web application for automated proctoring using Django, TensorFlow, and OpenCV.*
- *Implemented custom Face ID login authentication for users.*
- *Utilized face verification during exams at regular intervals to preserve user bandwidth.*
- *Implemented functionality to warn users when switching tabs during exams.*
- [GitHub Repository](#)

Institute Students Website Revamp Project

- *Led the frontend team in revamping the website for the Institute Students of IIT Mandi.*
 - *Designed the user interface using HTML, CSS, and JavaScript.*
 - *Facilitated effective communication and collaboration among team members.*
 - *The revamped website is currently being used by all students of IIT Mandi.*
 - [GitHub Repository](#)
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Achievements

- *Ranked 6th out of 100 participants in CodeRush, an intra-college competitive programming contest organized by AlgoUniversity.*
 - *Runner up in the Build a Bot team competition, where I deployed a bot using LIDAR sensors to detect the number of people in a room and automate room functions.*
 - *Won NFT by completing a dApp on Buildspace, demonstrating proficiency in Solidity, Smart Contracts, and Web3 development.*
 - *Runner up in the Chat-Bot team competition, where I trained and deployed a chat bot on Telegram as part of a college-level team competition.*
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Positions of Responsibility

- *Core Team Member at KamandPrompt, the Programming Club of IIT Mandi.*
 - *Event Organizer for ML101, an on-campus Machine Learning event.*
 - *Volunteered for the Sponsorship Team of FrostHack'22.*
 - *Server Administrator of IIT Mandi Wiki.*
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Extra-Curricular Activities

- *Volunteer at UDC, the Dance Club of IIT Mandi.*
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