

ASHUTOSH SHARMA

Second Year Undergraduate
Computer Science and Engineering
Indian Institute of Technology, Mandi

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EDUCATION

Indian Institute of Technology, Mandi

B.Tech, Computer Science and Engineering, CGPA: 8.49/10.00

Himachal Pradesh, India

2024

Montessorie Cambridge School, Raja Ka Bagh

CBSE Board, Class - XII: 83.4%

Himachal Pradesh, India

2019

Montessorie Cambridge School, Raja Ka Bagh

CBSE Board, Class - X: 10/10 CGPA

Himachal Pradesh, India

2017

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.

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)

PROJECTS

Age and Gender detection on CCTV videos

Python, Pytorch, OpenCV, MTCNN, ImageAI, Deepface, Keras, Tensorflow

[Github](#) 🔗

- Domains: SR GAN, DL, Image Processing
- Used ImageAI for object detection, ESRGAN for enhancing resolution and MTCNN for face detection from individual images and used Deepface library for age prediction.

Tower Defense AI

Python: Pygame, Genetic ML Algorithm

[Github](#) 🔗

- Developed a game & AI algorithm to play it, under the guidance of mentor.
- Tried 3-4 algorithms and finally implemented Genetic Algorithm from scratch whose performance matches human level performance.

Automated Proctoring

Django, Tensorflow, OpenCV

[Github](#) 🔗

- Login authentication using custom Face ID.
- Face-verification during exam at regular intervals to save user's bandwidth.
- Implemented functionality to warn user on switching tabs during exam.

Students IIT Mandi 🏠

Institute Students Website Revamp Project

[Github](#) 🔗

- Leader of Frontend team, used HTML, CSS and Javascript to design frontend of the platform.
- Currently the website is being used by all students of IIT Mandi.

ACHIEVEMENTS

- **Ranked 6th out of 100 participants in CodeRush:**
CodeRush is an intra-college competitive programming contest organised by AlgoUniversity
- **Runner up in Build a bot team competition:**
Deployed a bot using LIDAR sensors, that detects no. of people in a room and performs room automation.
- **Won NFT by completing dApp on Buildspace:**
Developed a Web3 app, using Solidity and Smart Contracts on BuildSpace.
- **Runner up in Chat-Bot team competition:**
Trained and deployed a chat bot on telegram in a college level team competition.

POSITION OF RESPONSIBILITY

- **KamandPrompt**-Core Team member at Programming Club of IIT Mandi
- **ML101**-Event organiser for on-campus Machine Learning, named ML101
- **FrostHack'22**-Volunteered for the sponsorship team of FrostHack'22
- **IIT Mandi Wiki**-Server Administrator of [IIT Mandi Wiki](#)

EXTRA CURRICULAR ACTIVITIES

- **Interested in dance**- Volunteer at UDC, Dance Club of IIT Mandi.