

Aashish Kumar

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CAREER OBJECTIVE

- I wish to develop my skills in Computer Science specifically in the field of Machine Learning and Web development and utilize them so that i can further enhance the motives of a professional organization by working and learning from them.

EDUCATION

- **Indian Institute of Technology Mandi** Mandi, Himachal Pradesh
Bachelor of Technology in Computer Science and Engineering; CGPA: 7.52 Aug. 2016 – Present

PROJECTS

- **Code Maniac** : A web-app that can accept and judge computer-programs, based on a given input and expected output set. Developed on PHP and can currently handle C and C++ languages.
- **CNN from Scratch** : A web-app to recognize hand written digits or written by user on the given drawing board. Developed on Python Flask framework it uses Convolutional Neural Networks implemented from scratch without using any Machine or Deep Learning library.
- **Image Compressor Algorithm** : A Machine Learning Algorithm which uses K-Means Algorithm in order to compress an image by reducing the number of colors in the image to K (given by user) most used colors. Implemented using Scikit-Learn ML library currently is an algorithm but soon will be an app.
- **Human Follower** : An automated human following bot which uses Bluetooth and GPS to track the location of the Android device of the person that needs to be followed. It's motion is automated using Arduino microcontroller in the body of the bot which is connected to the Android app developed to track person's location with GPS and sending instructions to Arduino via Bluetooth.
- **Survival Shooter** : A shooting Game developed using Unity3D, can be played on all the platforms including Windows, Mac and web player as well, you can play it on my web space [here](#).

EXPERIENCE

- **Teaching Assistant** IIT Mandi
Assistant to Prof. Padmanabhan Rajan 16 Feb 2018 - Present
 - **IC250** : Currently working as a TA in course IC250 - Programming Data Structures Practicum under the guidance of Professor Padmanabhan Rajan who is the course instructor.
- **Group Projects IIT Mandi**
 - **Radio IIT Mandi** : An online web radio developing on Ruby on Rails for the IIT Mandi Community.
 - **QnA Portal** : A Question and Answer portal in development to post questions and their answer to build a community in IIT Mandi like StackOverflow. Using Ruby on Rails web framework, the project is still under development.

PROGRAMMING SKILLS

- **Languages**: Python, C++, C, PHP, Javascript, Java, Octave/MATLAB, HTML.
- **Dev Technologies**: Git, MySQL, Flask, Ruby On Rails, Unity3D, AJAX.
- **Data Science**: Machine Learning python libraries, scikit-learn, scipy. Also a frequent participant of ML competitions held on *Kaggle*.

RELEVANT COURSES

- Data Structures and Algorithms
- Mathematical Foundations of Computer Science
- Computer Organisation
- Applied Database Practicum

POSITIONS OF RESPONSIBILITY

- Online Media Head, Rann-Neeti'17 (IIT Mandi's sports Fest)