

# Hritik Gupta

<https://hritikgupta.github.io>  
[b16097@students.iitmandi.ac.in](mailto:b16097@students.iitmandi.ac.in) | +91-7838869482

<https://www.linkedin.com/in/hritikgupta9/>

## EDUCATION

### INDIAN INSTITUTE OF TECHNOLOGY | B.TECH IN COMPUTER SCIENCE AND ENGINEERING

2016 - 2020 | Mandi, Himachal Pradesh • Cum. GPA: 8.31

RELEVANT COURSEWORK : Computation for Engineers, Data Structures and Algorithms, Advanced Data Structures and Algorithms, Applied Database Practicum, Information and Database Systems, Mathematics for Computer Science, Computer Organization, Applied Electronics, Design Practicum

TEACHING ASSISTANT for the course Data Structures and Algorithms

### DELHI PUBLIC SCHOOL | SENIOR SECONDARY EDUCATION

2013-2015 | Mathura Road, Delhi

- CBSE AISSCE: 95.2%

### DELHI PUBLIC SCHOOL | ELEMENTARY & SECONDARY EDUCATION

2001-2013 | Greater Noida, Uttar Pradesh

- CBSE AISSCE: CGPA - 10.0

## EXPERIENCE

### EDFORA | SOFTWARE DEVELOPER INTERN

December 05, 2017 – February 13, 2018 | Hauz Khas, Delhi

- Worked on automating the task of bulk uploading of question papers by converting the given docx file to a given format using Python scripting
- Trained a model to perform handwriting recognition (supportive for continuous/discontinuous running handwriting as well as printed text)
- Built a REST API using Flask, integrating the model, to obtain digitized text from an image input to finally extend the multifarious applications of the API

### EXODIA 2018, IIT MANDI | WEB DEVELOPMENT COORDINATOR

November 25, 2017 – April 06, 2018 | Mandi, Himachal Pradesh

- Designed and developed the entire front-end and sections of back-end of Exodia's Website, IIT Mandi's annual tech-cult fest, one of the biggest in the Himalayas.
- Lead and managed a group of designers for the interfacing of the web-pages
- Closely worked with the core-team for the publicity of the fest from Web's end

### ASSISTECH, IIT DELHI | PRODUCT DESIGN INTERN

December 27, 2016 – February 9, 2017 | Hauz Khas, Delhi

- Carried out dissertation titled "Designing an OCR based reading stand for visually impaired" with Prof. M. Balakrishnan, Deputy Director, IIT Delhi, as co-mentor
- Analyzed various commercial reading stands in terms of design, accessibility and affordability
- Designing a reading stand with a phone holding mechanism conforming to following specifications: fold-able, portable, height-adjustable, compact
- Created a CAD of stand and built an offline speech recognizing Android Application to trigger camera for performing OCR

## PROJECTS

### HOSTY-THE AUTOMATED ROOM | AAVISHKAR'17 PROJECT

April 2017 – May 2017 | IIT Mandi

- The project was aimed at automating various facets of room : controlling lights, fans, curtains and door opening, closing and locking using DTMF and Arduino, with a cost-effective and reliable approach
- A calling system with IVR-like input will facilitate controlling the aforementioned, by entering some keycodes

## LOOP DETECTOR | A PLUGIN FOR NVDA SCREEN-READER

July 2017 – August 2017 | Self-Project

- A plugin for screen readers to enhance readability of code for visually impaired
- The plugin detects loops and if conditions as the user navigates through the code

## PROXY BUD | SCRIPT TO CONFIGURE PROXY IN LINUX

July 2017 – August 2017 | Self-Project

- A script to set system-wide proxy in Linux
- Made using Whiptail to give a better UI touch

## LANGUAGES

### PROGRAMMING

Over 5000 lines:

C/C++ • Python • HTML5/CSS3/Bootstrap • Javascript • jQuery  
mySQL/PHP

Over 1000 lines:

Bash Scripting • Java •  $\text{\LaTeX}$

Familiar:

Android • Django • CAD Modelling (SolidWorks) • Adobe Photoshop  
Adobe AfterEffects • GNU Octave • Scilab

Other:

Sketching • Painting • Creative Writing

### SPOKEN & WRITTEN

Native fluency:

English, Hindi

Proficient fluency:

German

### KEY INTERESTS

Machine Learning: Deep Learning and  
Computer Vision, AI solutions, Designing

## AWARDS

2017	1 <sup>st</sup> /27 teams	Aavishkar'17   IIT Mandi
2017	3 <sup>rd</sup> /15 teams	Biz Idea Pitching Event   IIT Mandi
2016	1 <sup>st</sup> /9 teams	Maze Runner, Utkarsh'16   IIT Mandi
2016	2 <sup>nd</sup> /8 teams	LaserTag, Utkarsh'16   IIT Mandi
2015	Medal of Appreciation	National Science & Talent Search Exam
2014	Bronze Medal	National Cyber Olympiad   DPS Mathura Road
2013	Gold Medal	Academic Excellence   DPS Greater Noida
2013	PASCH Scholarship	3-week German-language course in Frankfurt, Germany
2012	GI-MMB Course	1-week German-language course in Tokyo, Japan

## SOCIETIES

2018	Intern	Catalyst, IIT Mandi
2018	Student Coordinator	Literary Society, IIT Mandi
2017	Student Coordinator	Entrepreneurship Development Cell, IIT Mandi
2017	Core Team	Robotronics Club, IIT Mandi
2016	English Tutoring Volunteer	Prayas Teaching Programme   NSS, IIT Mandi
2016	Teaching Volunteer	Spark, IIT Mandi