



## education

### **MTech | Electronics & Comm.**

NIT Hamirpur | 2022-2023(expected)

### **BTech | Electronics & Comm.**

NIT Hamirpur | 2018 - 2022(expected)

- Current CGPA: 8.13

## skills

### **computation**

machine learning  
computer vision  
algorithms  
artificial intelligence  
deep learning

### **courses**

data structures (grade A)  
communication theory (grade A)  
analog electronics (grade AB)  
digital electronics (grade AB)  
analog communications(ongoing)  
electronic switching circuits(ongoing)  
VLSI & MEMS Technology  
circuit design and simulation lab

### **electronics**

Arduino Uno  
Raspberry Pi  
Cadence Orcad

### **languages**

Proficient  
python • rust • matlab  
c++ • c • SQL  
javascript

### **machine learning**

Frameworks  
pytorch • tensorflow • scikit-learn  
keras • caffe  
Algorithms  
cnns

### **general**

Languages  
english • hindi • marathi • gujarati  
german • french • spanish  
Software  
L<sup>A</sup>T<sub>E</sub>X • photoshop  
OS  
linux • windows • mac  
IDEs  
jupyter • intellij • eclipse • vim  
web/mobile  
basic languages • javascript • android  
mongoDB • nodeJS

## experience

### **NavalDome | Software Developer**

August 2020 - (current)

- Worked on crucial components of marine cyber security product to achieve DNV-GL SL4 protection

### **Indian Society for Technical Education | Technical Secretary**

August 2019 - (current)

- Made a breadboard **video card**
- Developed **website and backend** for Prodyogiki
- Organised **Prodyogiki**, ISTE's annual tech festival
- Organised **Hult Prize OnCampus Round NITH**

### **Team Vibhav NITH | Coordinator**

November 2020 - April 2021

- Managed team activities and projects

### **Robotics Society NITH | Volunteer**

August 2018 - April 2019

- Worked on a **driverless car** project

### **Society for Promotion of Electronics Culture | Volunteer**

August 2018 - April 2019

## projects

### **Hardware**

**Breadboard Video Card** | A circuit which can output images via VGA  
Tech: Counters, Logic Gate ICs

**OCR Braille** | A system to convert text to Braille using Arduino Uno and OCR  
Tech: Python, Pytesseract, Arduino Uno

### **Software**

**Matter** | A material theme for GRUB  
Tech: Bash Scripting

**ASL Translator** | A program to recognize and translate American Sign

Language from images or video

Tech: Python, Fast.AI,

**Prodyogiki Website** | Website for the annual technical fest of ISTE NITH

Tech: Pug, Less, NodeJS, Mongo, Linode

**Proxy Scripiter** | Program to automatically set the proxy when connected to a specific network

Tech: Python, Bash Scripting, C, Windows Registry